For your safety, read carefully and keep in this vehicle.

2017 Infiniti QX80

Owner's Manual and Maintenance Information

INFINITI

Foreword

Your INFINITI represents a new way of thinking about vehicle design. It integrates advanced engineering and superior craftsmanship with a simple, refined aesthetic sensitivity associated with traditional Japanese culture.

The result is a different notion of luxury and beauty. The car itself is important, but so is the sense of harmony that the vehicle evokes in its driver, and the sense of satisfaction you feel with the INFINITI — from the way it looks and drives to the high level of retailer service.

To ensure that you enjoy your INFINITI to the fullest, we encourage you to read this Owner's Manual immediately. It explains all of the features, controls and performance characteristics of your INFINITI; it also provides important instructions and safety information.

A separate Warranty Information Booklet is included in your Owner's literature portfolio. Always carry it with you when you take your vehicle to an INFINITI retailer. The Warranty Information Booklet contents provide complete information about all warranties covering this vehicle, the requirements to keep the warranties in effect as well as the INFINITI Roadside Assistance program.

Additionally, a separate Customer Care and Lemon Law Information Booklet will explain how to resolve any concerns you may have with your vehicle, as well as clarify your rights under your state's lemon law.

In addition to factory installed options, your vehicle may also be equipped with additional accessories installed by INFINITI or by your INFINITI retailer prior to delivery. It is important that you familiarize yourself with all disclosures, warnings, cautions and instructions concerning proper use of such accessories prior to operating the vehicle and/or accessory. It is recommended you visit an INFINITI retailer for details concerning the particular accessories with which your vehicle is equipped.

READ FIRST — THEN DRIVE SAFELY

Before driving your vehicle, read your Owner's Manual carefully. This will ensure familiarity with controls and maintenance requirements, assisting you in the safe operation of your vehicle.

WARNING

IMPORTANT SAFETY INFORMATION REMINDERS!

Follow these important driving rules to help ensure a safe and comfortable trip for you and your passengers!

- **NEVER drive under the influence of alcohol or drugs.**
- **ALWAYS observe posted speed limits and never drive too fast for conditions.**
- **ALWAYS give your full attention to driving and avoid using vehicle features or taking other actions that could distract you.**
- **ALWAYS use your seat belts and appropriate child restraint systems. Pre-teen children should be seated in the rear seat.**
- **ALWAYS provide information about the proper use of vehicle safety features to all occupants of the vehicle.**
- **ALWAYS review this Owner's Manual for important safety information.**

ON-PAVEMENT AND OFF-ROAD DRIVING

This vehicle will handle and maneuver differently from an ordinary passenger car because it has a higher center of gravity for off-road use. As with other vehicles with features of this type, failure to operate this vehicle correctly may result in loss of control or an accident. Be sure to read "On-pavement and off-road driving precautions", "Avoiding collision and rollover" and "Driving safety precautions" in the "5. Starting and driving" section of this manual.

MODIFICATION OF YOUR VEHICLE

This vehicle should not be modified. Modification could affect its performance, safety or durability, and may even violate governmental regulations. In addition, damage or performance problems resulting from modification will not be covered under the INFINITI warranties.

WARNING

Installing an aftermarket On-Board Diagnostic (OBD) plug-in device that uses the port during normal driving, for example remote insurance company monitoring, remote vehicle diagnostics, telematics or engine reprogramming, may cause interference or damage to vehicle systems. We do not recommend or endorse the use of any aftermarket OBD plug-in devices, unless specifically approved by INFINITI. The vehicle warranty may not cover damage caused by any aftermarket plug-in device.

WHEN READING THE MANUAL

This manual includes information for all features and equipment available on this model. Features and equipment in your vehicle may vary depending on model, trim level, options selected, order, date of production, region or availability. Therefore, you may find information about features or equipment that are not included or installed on your vehicle.

All information, specifications and illustrations in this manual are those in effect at the time of printing. INFINITI reserves the right to change specifications, performance, design or component suppliers without notice and without obligation. From time to time, INFINITI may update or revise this manual to provide owners with the most accurate information currently available. Please carefully read and retain with this manual all revision updates sent to you by INFINITI to ensure you have access to accurate and up-to-date information regarding your vehicle. Current versions of vehicle Owner's Manuals and any updates can also be found in the Owner section of the INFINITI website at https://owners.infinitiusa.com/owners/navigation/manualsandGuides. If you have questions concerning any information in your Owner's Manual, contact INFINITI Consumer Affairs. See the INFINITI CUSTOMER CARE PROGRAM page in this Owner's Manual for contact information.

IMPORTANT INFORMATION ABOUT THIS MANUAL

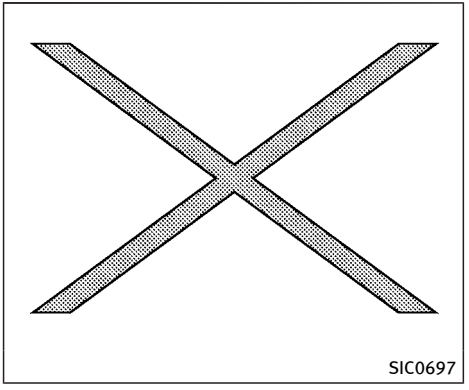
You will see various symbols in this manual. They are used in the following ways:

WARNING

This is used to indicate the presence of a hazard that could cause death or serious personal injury. To avoid or reduce the risk, the procedures must be followed precisely.

CAUTION

This is used to indicate the presence of a hazard that could cause minor or moderate personal injury or damage to your vehicle. To avoid or reduce the risk, the procedures must be followed carefully.



If you see the symbol above, it means **"Do not do this"** or **"Do not let this happen"**.



If you see a symbol similar to those above in an illustration, it means the arrow points to the front of the vehicle.



Arrows in an illustration that are similar to those above indicate movement or action.



Arrows in an illustration that are similar to those above call attention to an item in the illustration.

CALIFORNIA PROPOSITION 65 WARNING

WARNING

Engine Exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. In addition, certain fluids contained in vehicles and certain products of component wear contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

CALIFORNIA PERCHLORATE ADVISORY

Some vehicle parts, such as lithium batteries, may contain perchlorate material. The following advisory is provided: "Perchlorate Material - special handling may apply, See www.dtsc.ca.gov/

hazardouswaste/perchlorate."

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SiriusXM® services require a subscription after trial period and are sold separately or as a package. The satellite service is available only in the 48 contiguous USA and DC. SiriusXM® satellite service is also available in Canada: see www.siriusxm.ca

INFINITI®

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INFINITI CUSTOMER CARE PROGRAM

INFINITI CARES ...

Both INFINITI and your INFINITI retailer are dedicated to serving all your automotive needs. Your satisfaction with your vehicle and your INFINITI retailer are our primary concerns. Your INFINITI retailer is always available to assist you with all your automobile sales and service needs.

However, if there is something that your INFINITI retailer cannot assist you with or you would like to provide INFINITI directly with comments or questions, please contact our (INFINITI's) Consumer Affairs Department using our toll-free number:

For U.S. customers
1-800-662-6200
For Canadian customers
1-800-361-4792

The Consumer Affairs Department will ask for the following information:

- Your name, address, and telephone number
- Vehicle identification number (on dash panel)
- Date of purchase
- Current odometer reading
- Your INFINITI retailer's name
- Your comments or questions

OR

You can write to INFINITI with the information on the left at:

For U.S. customers
INFINITI Division
Nissan North America, Inc.
Consumer Affairs Department
P.O. Box 685003
Franklin, TN 37068-5003
or via e-mail at:
nnaconsumeraffairs@nissan-usa.com

For Canadian customers
INFINITI Division
Nissan Canada Inc.
5290 Orbitor Drive
Mississauga, Ontario L4W 4Z5
or via e-mail at:
information.centre@nissancanada.com

If you prefer, visit us at:

www.InfinitiUSA.com (for U.S. customers)

or

www.Infiniti.ca (for Canadian customers)

We appreciate your interest in INFINITI and thank you for buying a quality INFINITI vehicle.

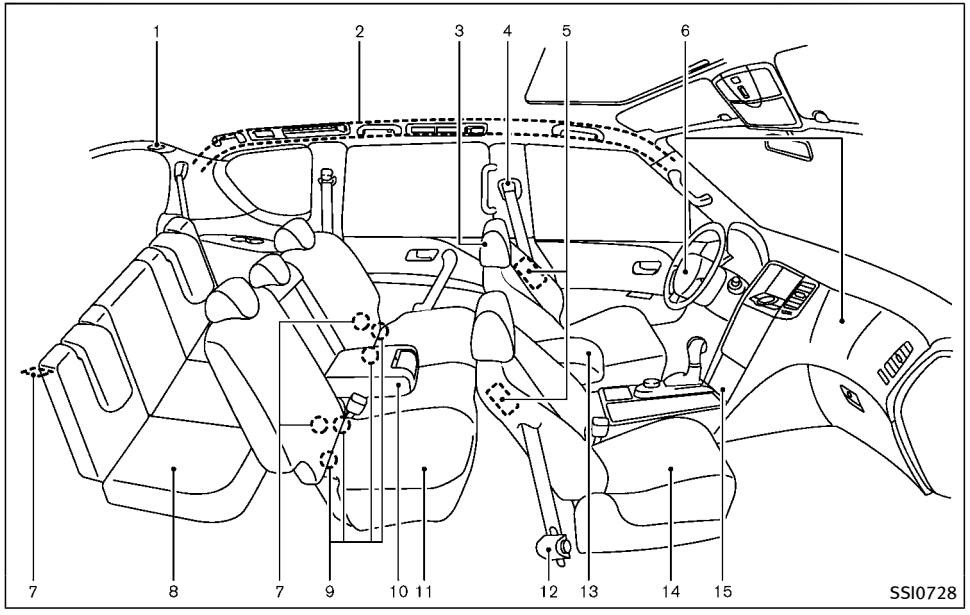
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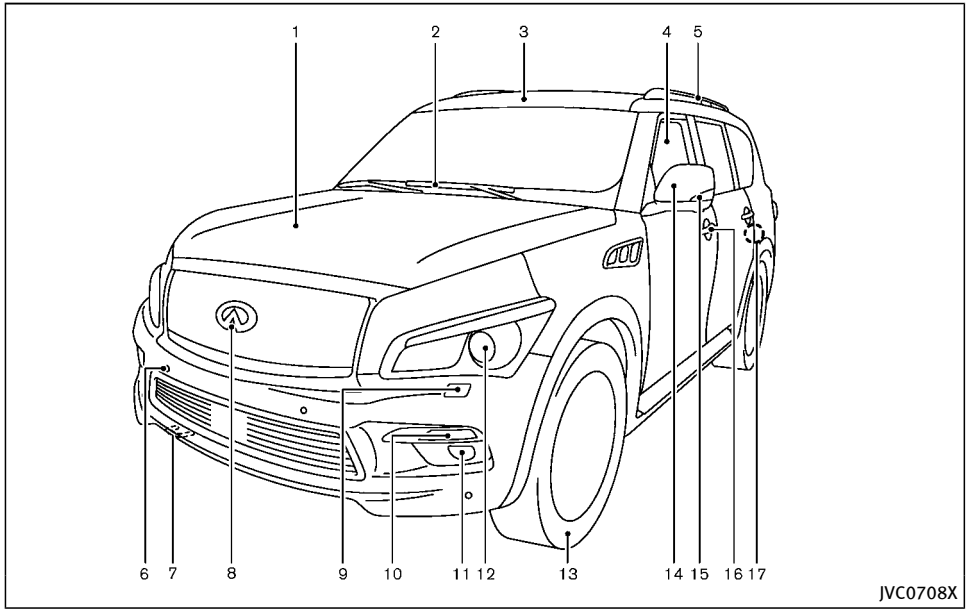
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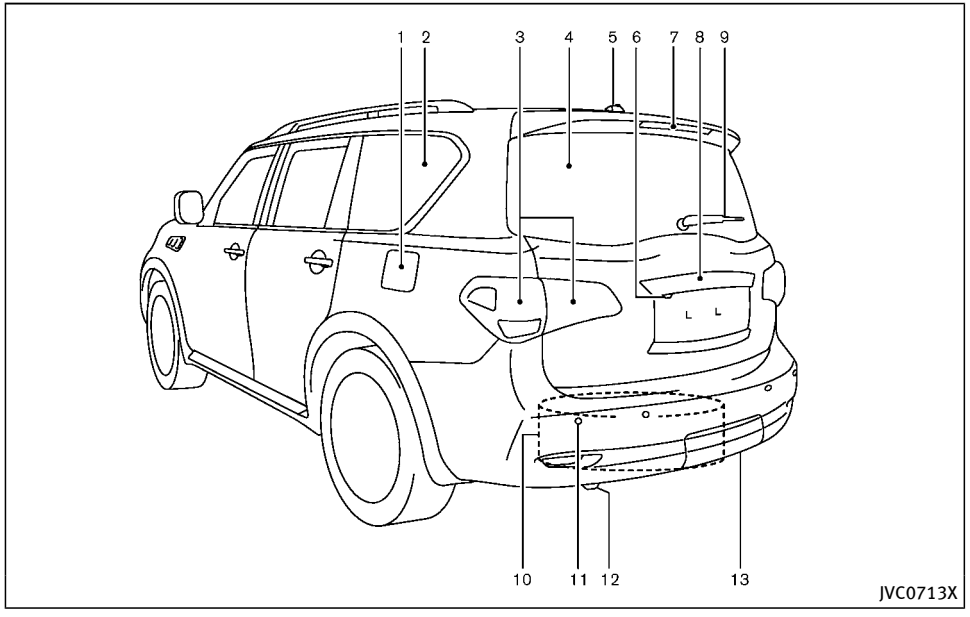
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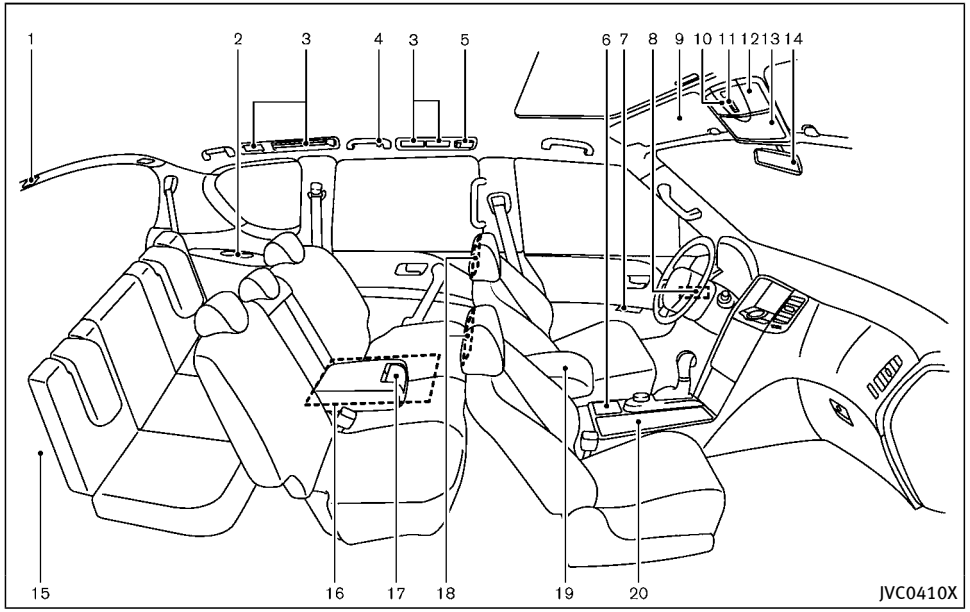
*: if so equipped

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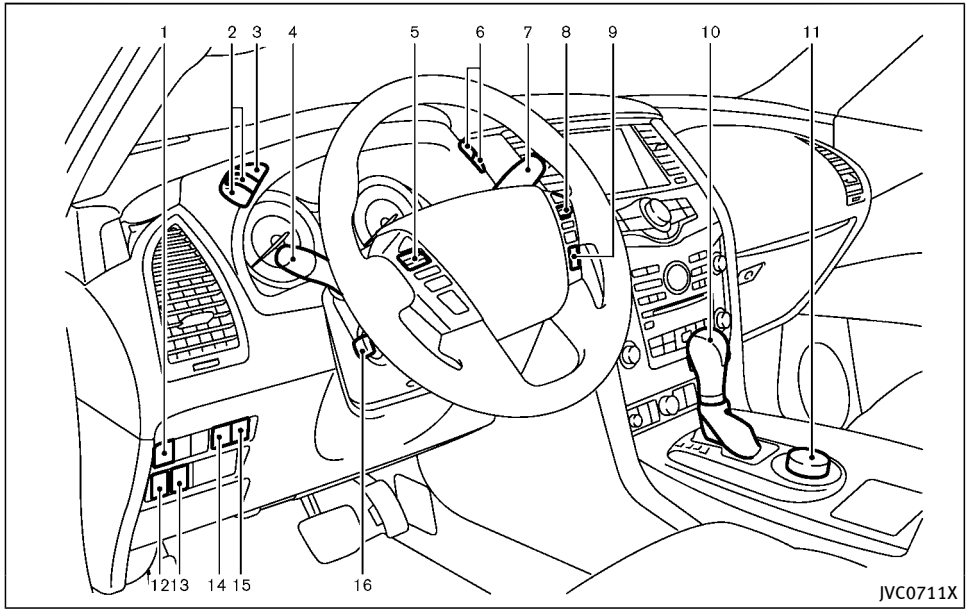
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*: if so equipped

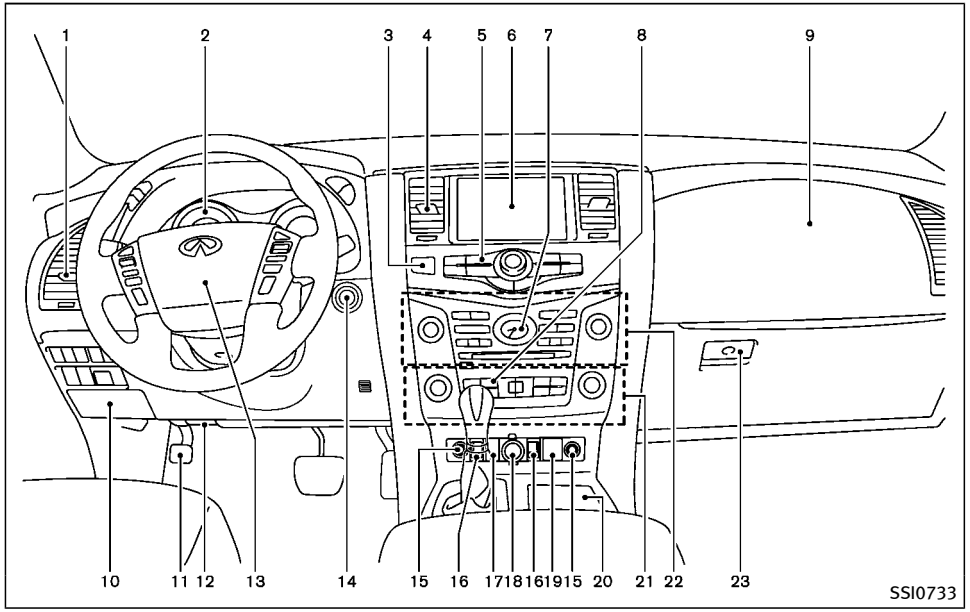


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*: if so equipped

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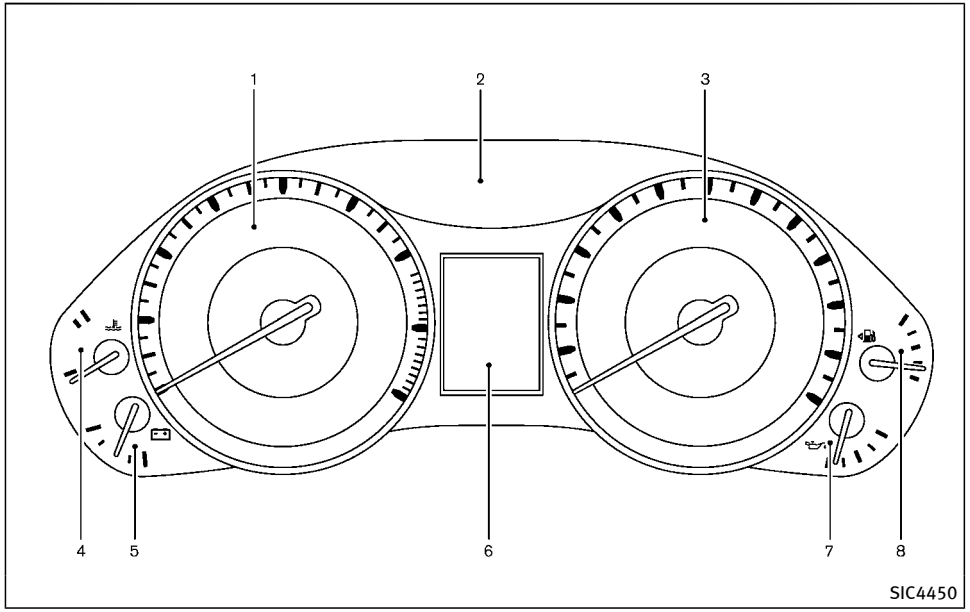
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*: if so equipped

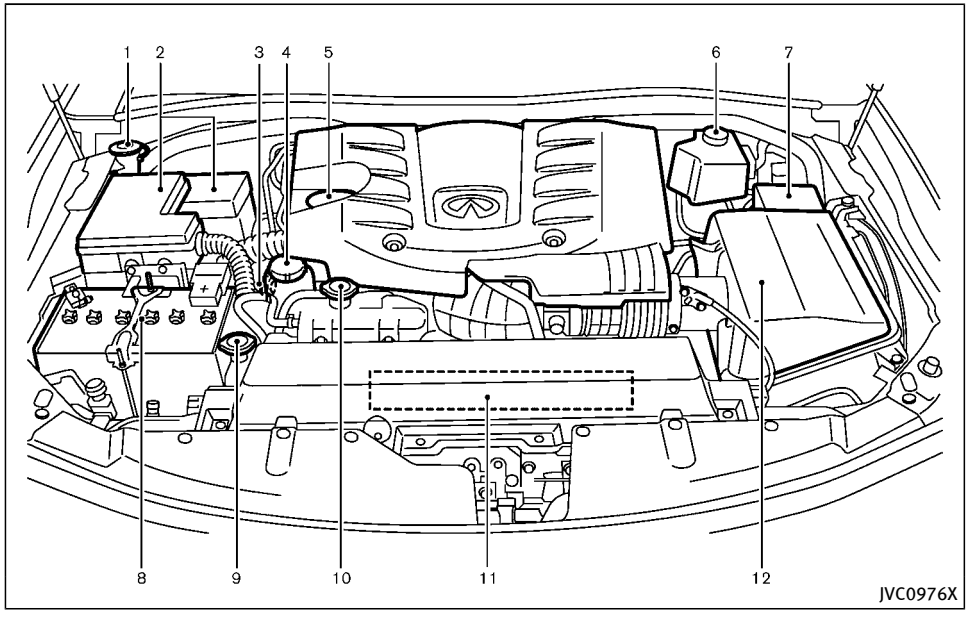
**: Refer to the separate Navigation System Owner's Manual.

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VK56VD ENGINE

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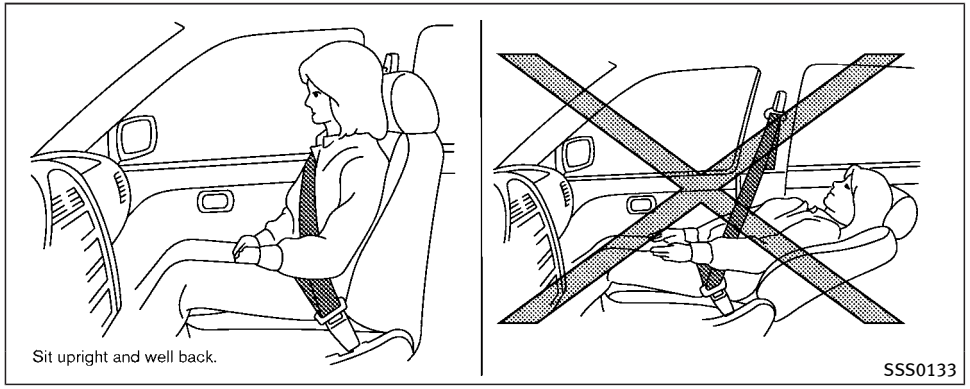
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WARNING

- Do not ride in a moving vehicle when the seatback is reclined. This can be dangerous. The shoulder belt will not be against your body. In an accident, you could be thrown into it and receive neck or other serious injuries. You could also slide under the lap belt and receive serious internal injuries.
- For the most effective protection when the vehicle is in motion, the seat should be upright. Always sit well back and upright in the seat with both feet on the floor and adjust the seat belt properly. See “Precautions on seat belt usage” (P.1-19).
- After adjustment, gently rock in the seat to make sure it is securely locked.
- Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls. Unattended children could become involved in serious accidents.
- To help avoid risk of injury or death through unintended operation of the vehicle and/or its systems, do not leave children, people who require the assistance of others or pets unattended in your vehicle. Additionally, the temperature inside a closed vehicle on a warm day can quickly become high enough to cause a significant risk of injury or death to people and pets.
- The seatback should not be reclined any more than needed for comfort. Seat belts are most effective when the passenger sits well back and straight up in the seat. If the seatback is reclined, the risk of sliding under the lap belt and being injured is increased.

FRONT SEATS

Front power seat adjustment

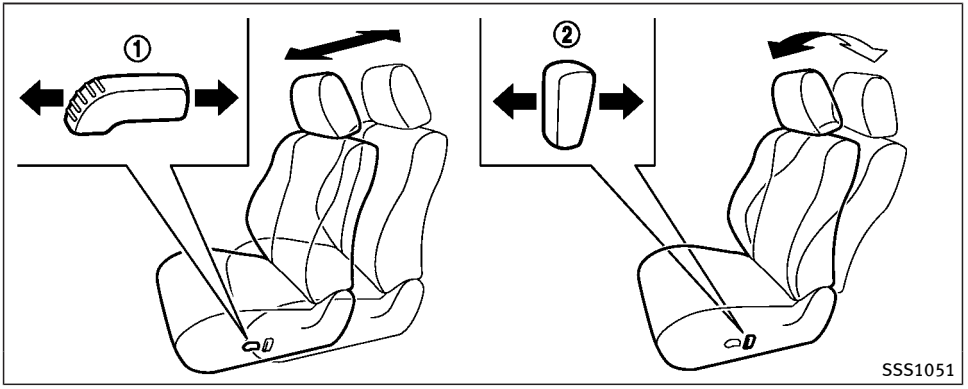
Operating tips:

- The power seat motor has an auto-reset overload protection circuit. If the motor stops during operation, wait 30 seconds, then reactivate the switch.
- Do not operate the power seat switch for a long period of time when the engine is off. This will discharge the battery.

See “Automatic drive positioner” (P.3-34) for the seat position memory function.

CAUTION

When adjusting the seat positions, be sure not to contact any moving parts to avoid possible injuries and/or damages.



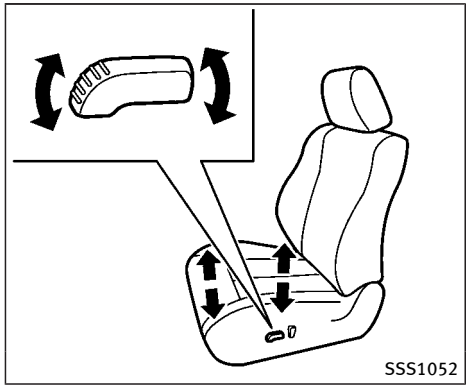
Forward and backward:

Moving the switch ① forward or backward will slide the seat forward or backward to the desired position.

Reclining:

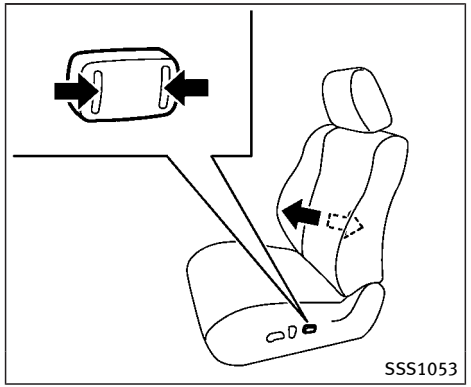
Move the recline switch ② backward until the desired angle is obtained. To bring the seatback forward again, move the switch ② forward.

The reclining feature allows adjustment of the seatback for occupants of different sizes for added comfort and to help obtain proper seat belt fit. (See “Precautions on seat belt usage” (P.1-19).) Also, the seatback can be reclined to allow occupants to rest when the vehicle is stopped and the transmission is in the P (Park) position.



Seat lifter:

1. Pull up or push down the adjusting switch to adjust the seat height until the desired position is achieved.
2. Tilt up or down the adjusting switch to adjust the front angle of the seat until the desired position is achieved (for driver's seat).



Lumbar support:

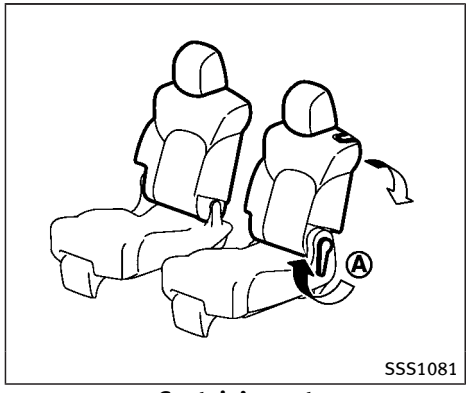
The lumbar support feature provides lower back support to the occupants.

Push the front or back end of the switch to adjust the seatback lumbar area.

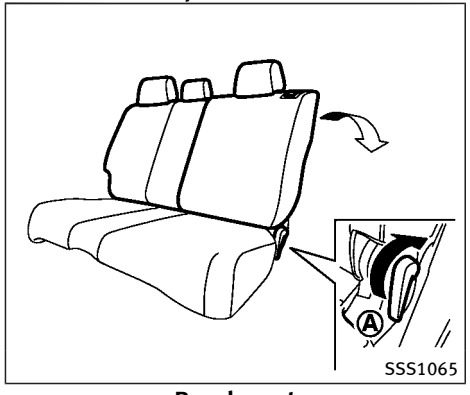
2ND ROW SEATS

WARNING

- **Never allow anyone to ride in the cargo area or on the rear seat when it is in the fold-down position. Use of these areas by passengers without proper restraints could result in serious injury in an accident or sudden stop.**
- **When returning the seatbacks to the upright position, be certain they are completely secured in the latched position. If they are not completely secured, passengers may be injured in an accident or sudden stop.**
- **Properly secure all cargo to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.**



Captain's seat



Bench seat

Reclining

Pull the reclining lever Ⓐ and position the seatback at the desired angle. Release the reclining lever after positioning the seat at the desired angle.

To return the seatback, pull the lever.

The reclining feature allows adjustment of the seatback for occupants of different sizes to help obtain proper seat belt fit. (See "Precautions on seat belt usage" (P.1-19).) The seatback may also be reclined to allow occupants to rest when the vehicle is parked.

⚠ WARNING

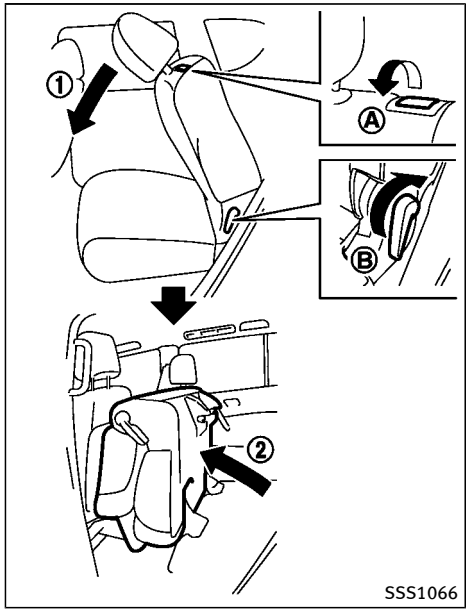
- **Do not ride in a moving vehicle when the seatback is reclined. This can be dangerous. The shoulder belt will not be against your body. In an accident, you could be thrown into it and receive neck or other serious injuries. You could also slide under the lap belt and receive serious internal injuries.**
- **For the most effective protection when the vehicle is in motion, the seat should be upright. Always sit well back and upright in the seat with both feet on the floor and adjust the seat belt properly. See "Precautions on seat belt usage" (P.1-19).**
- **After adjustment, check to be sure the seat is securely locked.**

Entry to 3rd row seat

⚠ CAUTION

- **Do not drive with the 2nd row seat tipped up.**
- **Be careful not to allow the 2nd row seat to pinch, hit any part of your body or other people when operating the 2nd row seat. Make sure the seat path is clear of all objects before moving the seat.**

The 2nd row seat can be tipped forward for easy entry to or exit from the 3rd row seat.

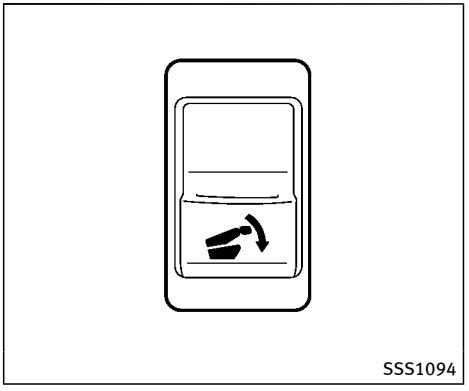


SSS1066

For manual type:

To enter the 3rd row seat, pull the lever Ⓐ or Ⓑ located on the 2nd row seat and fold the seatback forward ① at an angle over the seat base. Then lift up the seat base and tip the 2nd row seat forward ②. This will release the back of the seat so it may be tipped forward.

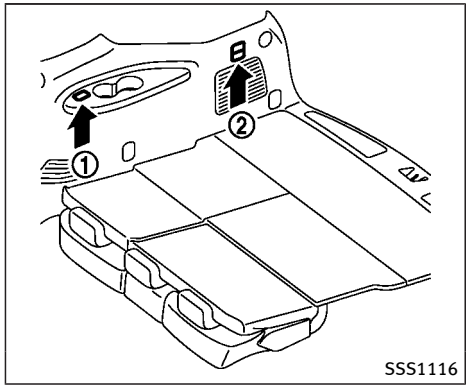
To exit the 3rd row seat, pull the lever Ⓐ or Ⓑ and fold the seatback forward onto the seat base. Then lift up on the seat base and tip it forward.


SSS1094

For remote release type (if so equipped):

Push and hold the switch located on the instrument panel. The seatback will fold down and tip forward.

The lower corner of the seat base will lift and the 2nd row seat will tip forward.

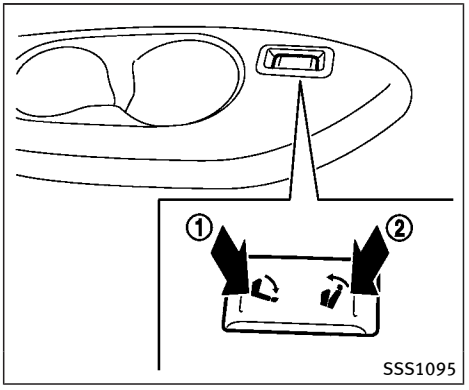


3RD ROW SEATS

The 3rd row power folding seat controls are located behind the 2nd row seat (both the driver's and passenger's side) on the 3rd row cup holder console ①. There are also controls located on the rear quarter trim panel behind the 3rd row seats (passenger's side) ②.

Before operating the 3rd row seats:

- Make sure the 2nd row seatback is not reclined.
- Lower the 3rd row head restraint to the full down position.
- Disconnect and secure the center seat belt and tongues into the retractor base. See "3rd row center seat belt" (P.1-25).
 — Always reconnect the center seat belt when the seat is returned to the upright position
- Make sure that there are no objects on the seatback cushion.



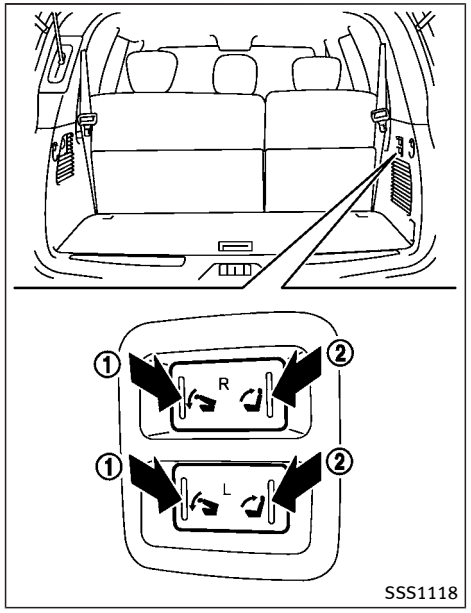
Power reclining

Push and hold the rear side of the switch ① beside the 3rd row cup holders until the desired seatback angle (up to 20 degrees) is obtained. To move the seatback forward again, push and hold the front side of the switch ② until the desired angle is obtained.

⚠ WARNING

- **After adjustment, check to be sure the seat is securely locked.**

- **Do not ride in a moving vehicle when the seatback is reclined. This can be dangerous. The shoulder belt will not be against your body. In an accident, you could be thrown into it and receive neck or other serious injuries. You could also slide under the lap belt and receive serious internal injuries.**
- **For the most effective protection when the vehicle is in motion, the seat should be upright. Always sit well back and upright in the seat with both feet on the floor and adjust the seat belt properly. See "Precautions on seat belt usage" (P.1-19).**



Power folding

Push and hold the front side of the switch ① located on the passenger side of the cargo room. The corresponding seatback (R: right side, L: left side) will be folded down automatically.

Push and hold the rear side of the switch ②. The seatback will be returned automatically. The seatback will rise up while holding the switch.

NOTE:

Operating the power folding seats can discharge the vehicle battery if the vehicle is not running.

CAUTION

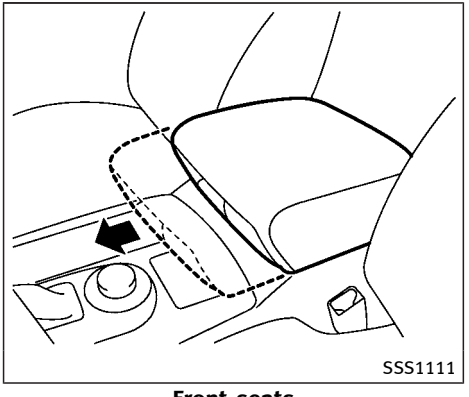
When operating the rear power seatback return, make sure that the vehicle is stopped and the transmission is in the P (Park) position.

WARNING

- **Never allow anyone to ride in the cargo area or on the rear seat when it is in the fold-down position. Use of these areas by passengers without proper restraints could result in serious injury in an accident or sudden stop.**
- **When returning the seatbacks to the upright position, be certain they are completely secured in the latched posi-**

tion. If they are not completely secured, passengers may be injured in an accident or sudden stop.

- Properly secure all cargo to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.



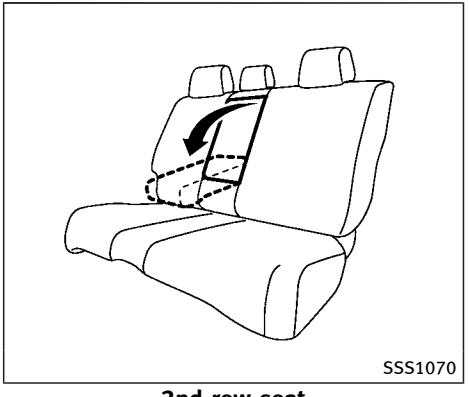
Front seats

ARMREST (if so equipped)

Front seats

The console box lid can be used as an armrest.

Slide the box lid forward or backward to the desired position (if so equipped).



2nd row seat

2nd row seat

Pull and draw the armrest forward until it is horizontal.

FLEXIBLE SEATING

WARNING

- Never allow anyone to ride in the cargo area or on the rear seats when they are in the fold-down position. In a collision, people riding in these areas without proper restraints are more likely to be seriously injured or killed.

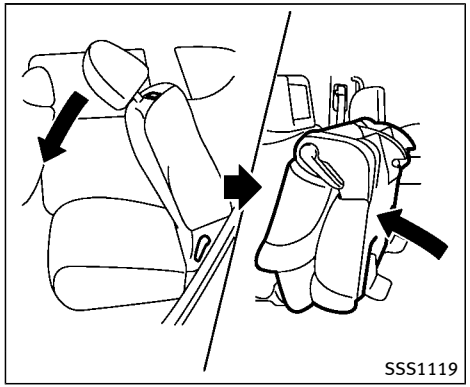
- **Do not allow people to ride in any area of your vehicle that is not equipped with seats and seat belts. Be sure everyone in your vehicle is in a seat and using a seat belt properly.**
- **Do not fold down the rear seats when occupants are in the rear seat area or any cargo is on the rear seats.**
- **Head restraints should be adjusted properly as they may provide significant protection against injury in an accident. Always replace and adjust them properly if they have been removed for any reason.**
- **If the head restraints are removed for any reason, they should be securely stored to prevent them from causing injury to passengers or damage to the vehicle in case of sudden braking or an accident.**
- **When returning the seatbacks to the upright position, be certain they are completely secured in the latched position. If they are not completely secured, passengers may be injured in an accident or sudden stop.**
- **Properly secure all cargo to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.**
- **When folding the bench seat seatback down for maximum storage, make sure the seat base is in the latched position by rocking the seat base. If the seat base is not properly secured, cargo stored on top of a folded seatback may become a projectile causing personal injury or vehicle damage.**

CAUTION

- **When folding the 2nd row seat for maximum cargo hauling, be sure that cargo does not contact the center console of the captain's seat (if so equipped) to avoid possible damage to the console.**
- **When folding or returning the seat(s) to the upright position, to avoid injury to yourself and others:**
 - **— Make sure that the seat path is clear before moving the seat.**
 - **— Be careful not to allow hands or feet to get caught or pinched in the seat.**

Stowing 2nd and 3rd row seats

To stow 2nd and 3rd row seats for maximum cargo capacity:

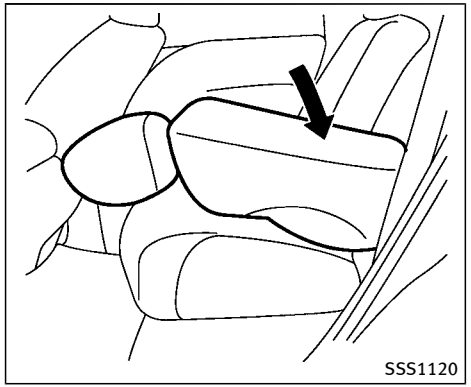

SSS1119

Manual Operation:

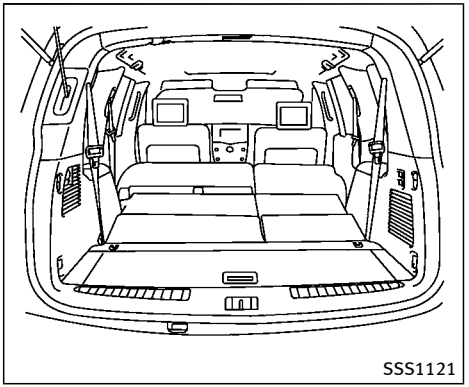
1. Pull lever located on the 2nd row seat. The seatback folds down and the seat base will tip forward. See “Entry to 3rd row seat” (P.1-6).

Power Operation:

1. Push and hold the corresponding switch located on the instrument panel below the audio system. The seatback will fold down and tip forward. See “Entry to 3rd row seat” (P.1-6).


SSS1120

2. Push the folded seat down until it locks in position.


SSS1121

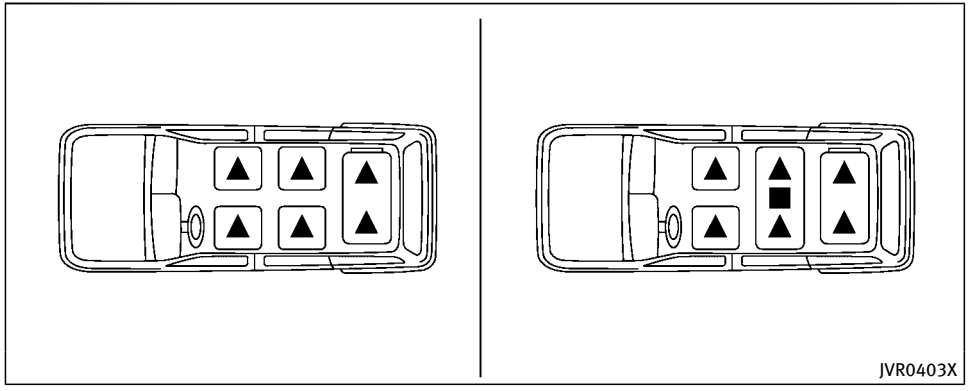
3. Fold the 3rd row seat flat using the switches located in the cargo area. See “Power folding ” (P.1-9).
4. Return 3rd row seats to seating positions by raising the 3rd row seatbacks to an upright position using the switches. Make sure the seatback is locked in position. See “Power folding ” (P.1-9).
5. Return the 2nd row seat to a seating position by raising the 2nd row seatbacks to an upright position. Make sure the seatback is locked in position.

CAUTION

When folding the 2nd row seat for maximum cargo hauling, be sure that cargo does not contact the center console of the captain's seat (if so equipped) to avoid possible damage to the console.

WARNING

Head restraint/headrest supplement the other vehicle safety systems. They may provide additional protection against injury in certain rear end collisions. Adjustable head restraints/headrests must be adjusted properly, as specified in this section. Check the adjustment after someone else uses the seat. Do not attach anything to the head restraint/headrest stalks or remove the head restraint/headrest. Do not use the seat if the head restraint/headrest has been removed. If the head restraint/headrest was removed, reinstall and properly adjust the head restraint/headrest before an occupant uses the seating position. Failure to follow these instructions can reduce the effectiveness of the head restraint/headrest. This may increase the risk of serious injury or death in a collision.

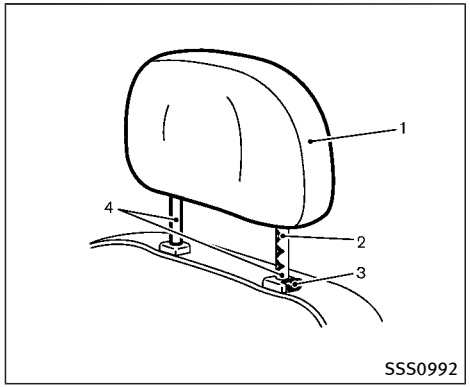


The illustration shows the seating positions equipped with head restraint/headrest.

▲ Indicates the seating position is equipped with a head restraint.

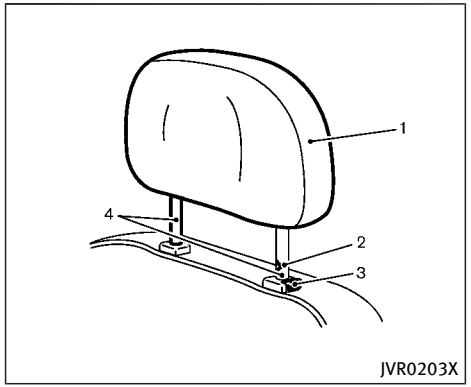
■ Indicates the seating position is equipped with a headrest.

- Your vehicle is equipped with a head restraint/headrest that may be integrated, adjustable or non-adjustable.
- Adjustable head restraints/headrests have multiple notches along the stalk to lock them in a desired adjustment position.
- The non-adjustable head restraints/headrests have a single locking notch to secure them to the seat frame.
- Proper Adjustment:
 - For the adjustable type, align the head restraint/headrest so the center of your ear is approximately level with the center of the head restraint/headrest.
 - If your ear position is still higher than the recommended alignment, place the head restraint/headrest at the highest position.
- If the head restraint/headrest has been removed, ensure that it is reinstalled and locked in place before riding in that designated seating position.



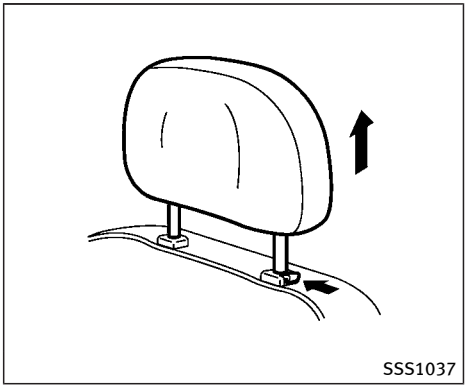
ADJUSTABLE HEAD RESTRAINT/ HEADREST COMPONENTS

1. Removable head restraint/headrest
2. Multiple notches
3. Lock knob
4. Stalks



NON-ADJUSTABLE HEAD RESTRAINT/HEADREST COMPONENTS

1. Removable head restraint/headrest
2. Single notch
3. Lock knob
4. Stalks



REMOVE

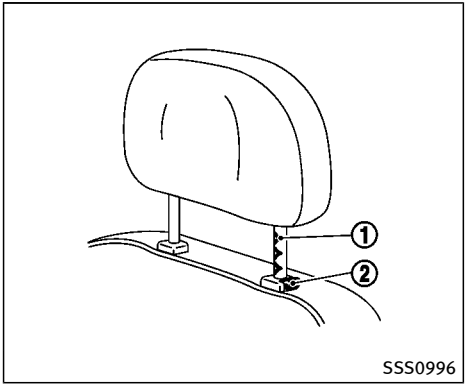
CAUTION

The front head restraints with a rear display are not designed to be pulled out. The rear display may be damaged if the head restraint is forcibly pulled out.

Use the following procedure to remove the head restraint/headrest.

1. Pull the head restraint/headrest up to the highest position.

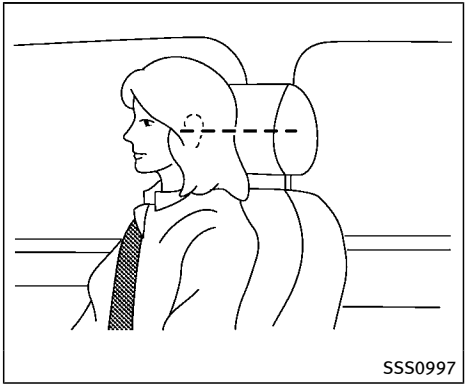
2. Push and hold the lock knob.
3. Remove the head restraint/headrest from the seat.
4. Store the head restraint/headrest properly in a secure place so it is not loose in the vehicle.
5. Reinstall and properly adjust the head restraint/headrest before an occupant uses the seating position.



SSS0996

INSTALL

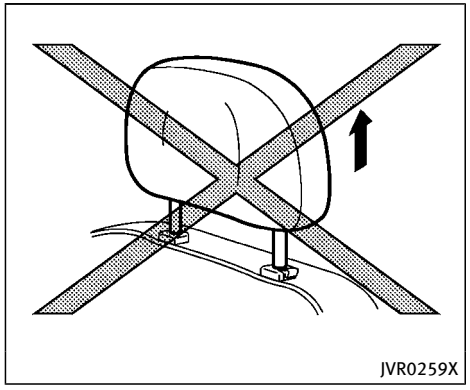
1. Align the head restraint/headrest stalks with the holes in the seat. Make sure that the head restraint/headrest is facing the correct direction. The stalk with the adjustment notch ① must be installed in the hole with the lock knob ②.
2. Push and hold the lock knob and push the head restraint/headrest down.
3. Properly adjust the head restraint/headrest before an occupant uses the seating position.


SSS0997

ADJUST

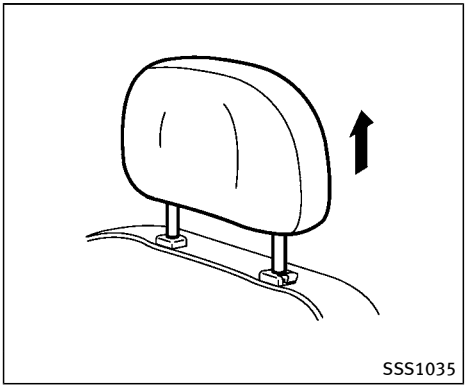
For adjustable head restraint/headrest

Adjust the head restraint/headrest so the center is level with the center of your ears. If your ear position is still higher than the recommended alignment, place the head restraint/headrest at the highest position.



For non-adjustable head restraint/headrest

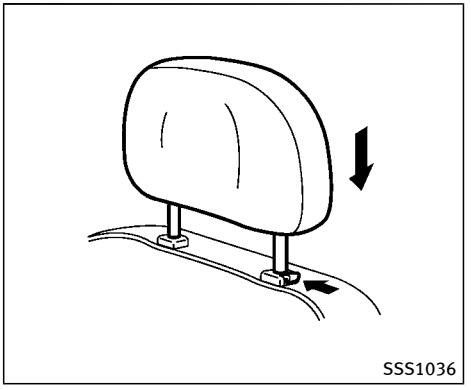
Make sure the head restraint/headrest is positioned so the lock knob is engaged in the notch before riding in that designated seating position.



Raise

To raise the head restraint/headrest, pull it up.

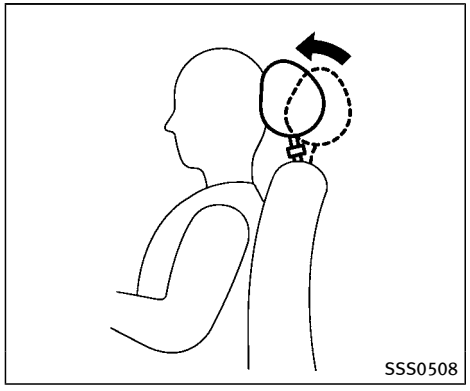
Make sure the head restraint/headrest is positioned so the lock knob is engaged in the notch before riding in that designated seating position.



Lower

To lower, push and hold the lock knob and push the head restraint/headrest down.

Make sure the head restraint/headrest is positioned so the lock knob is engaged in the notch before riding in that designated seating position.



FRONT-SEAT ACTIVE HEAD RESTRAINT

The Active Head Restraint moves forward utilizing the force that the seatback receives from the occupant in a rear-end collision. The movement of the head restraint helps support the occupant's head by reducing its backward movement and helping absorb some of the forces that may lead to whiplash-type injuries.

Active Head Restraints are effective for collisions at low to medium speeds in which it is said that whiplash injury occurs most.

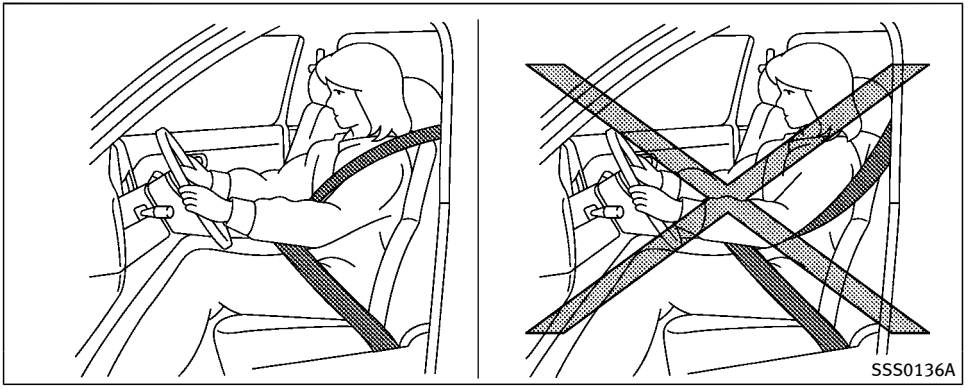
Active Head Restraints operate only in certain rear-end collisions. After the collision, the head restraints return to their original position.

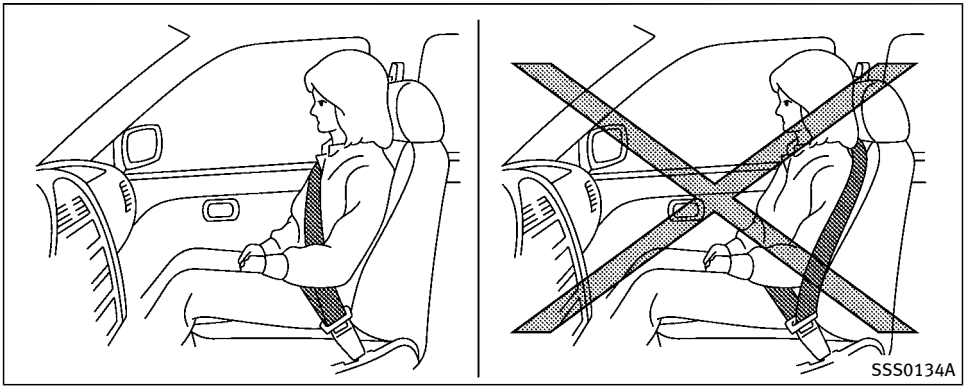
Adjust the Active Head Restraints properly as described earlier in this section.

PRECAUTIONS ON SEAT BELT USAGE

If you are wearing your seat belt properly adjusted, and you are sitting upright and well back in your seat with both feet on the floor, your chances of being injured or killed in an accident and/or the severity of injury may be greatly reduced. INFINITI strongly encourages you and all of your passengers to buckle up every time you drive, even if your seating position includes a supplemental air bag.

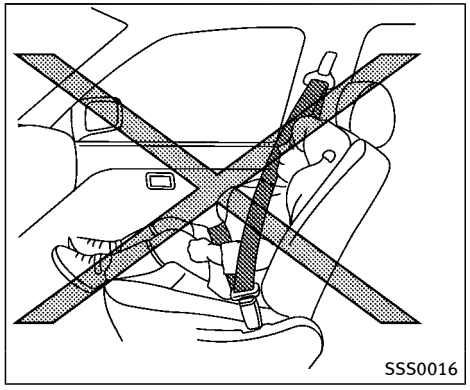
Most U.S. states and Canadian provinces or territories specify that seat belts be worn at all times when a vehicle is being driven.

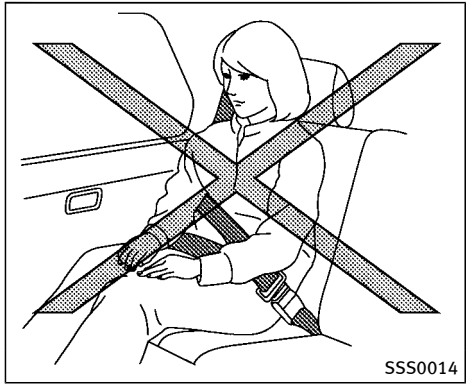

SSS0136A


SSS0134A

WARNING

- Every person who drives or rides in this vehicle should use a seat belt at all times. Children should be properly restrained in the rear seat and, if appropriate, in a child restraint.
- The seat belt should be properly adjusted to a snug fit. Failure to do so may reduce the effectiveness of the entire restraint system and increase the chance or severity of injury in an accident. Serious injury or death can occur if the seat belt is not worn properly.
- Always route the shoulder belt over your shoulder and across your chest. Never put the belt behind your back, under your arm or across your neck. The belt should be away from your face and neck, but not falling off your shoulder.
- Position the lap belt as low and snug as possible AROUND THE HIPS, NOT THE WAIST. A lap belt worn too high could increase the risk of internal injuries in an accident.
- Be sure the seat belt tongue is securely fastened to the proper buckle.
- Do not wear the seat belt inside out or twisted. Doing so may reduce its effectiveness.
- Do not allow more than one person to use the same seat belt.
- Never carry more people in the vehicle than there are seat belts.
- If the seat belt warning light glows continuously while the ignition is turned ON with all doors closed and all seat belts fastened, it may indicate a malfunction in the system. Have the system checked. It is recommended you visit an INFINITI retailer for this service.
- No changes should be made to the seat belt system. For example, do not modify the seat belt, add material or install devices that may change the seat belt routing or tension. Doing so may affect the operation of the seat belt system. Modifying or tampering with the seat belt system may result in serious personal injury.
- Once a seat belt pretensioner has activated, it cannot be reused and must be replaced together with the retractor. It is recommended you visit an INFINITI retailer for this service.
- All seat belt assemblies, including retractors and attaching hardware, should be inspected after any collision. It is recommended you visit an INFINITI retailer for this service. INFINITI recommends that all seat belt assemblies in use during a collision be replaced unless the collision was minor and the belts show no damage and continue to operate properly. Seat belt assemblies not in use during a collision should also be inspected and replaced if either damage or improper operation is noted.
- All child restraints and attaching hardware should be inspected after any collision. Always follow the restraint manufacturer's inspection instructions and replacement recommendations. The child restraints should be replaced if they are damaged.


SSS0016


SSS0014

PREGNANT WOMEN

INFINITI recommends that pregnant women use seat belts. The seat belt should be worn snug, and always position the lap belt as low as possible around the hips, not the waist, and place the shoulder belt over your shoulder and across your chest. Never run the lap/shoulder belt over your abdominal area. Contact your doctor for specific recommendations.

INJURED PERSONS

INFINITI recommends that injured persons use seat belts, depending on the injury. Check with your doctor for specific recommendations.

PRE-CRASH SEAT BELTS WITH COMFORT FUNCTION (if so equipped for front seats)

The pre-crash seat belt tightens the seat belt with a motor to help restrain front seat occupants. This helps reduce the risk of injury in a collision.

The motor retracts the seat belt under the following emergency conditions:

- During emergency braking
- During sudden steering maneuvers
- Activation of the Forward Emergency Braking (FEB) with pedestrian detection system. (See “Forward Emergency Braking (FEB) with pedestrian detection” (P.5-105).)
- In the event of a high severity rollover collision.

The pre-crash seat belt will not be active when:

- the seat belt is not fastened
- the vehicle speed is under 10 MPH (15 km/h) during emergency braking
- the vehicle speed is under 19 MPH (30 km/h) during sudden steering maneuvers or in the event of a high severity rollover collision.

The pre-crash seat belt will not be active when the brake pedal is not depressed except when sudden steering maneuvers occur or the Forward Emergency Braking (FEB) with pedestrian detection system activates.

The motor also retracts the seat belt when the seat belt is fastened or unfastened. When the seat belt is fastened, the motor tightens the seat belt for a snug fit. When the seat belt is unfastened, the motor retracts the seat belt. If the seat belt is not fully retracted, the motor retracts the seat

belt when the door is opened.

Always wear your seat belt correctly and sit upright and well back.

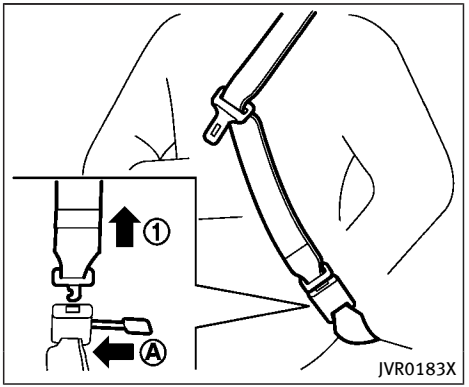
If the motor cannot retract the seat belt when the seat belt is fastened or unfastened, it may indicate the pre-crash seat belt system has a malfunction. Have the system checked and repaired. It is recommended you visit an INFINITI retailer for this service.

When the seat belt is retracted repeatedly in a short period of time, the motor may not be able to retract the seat belt. After 8 minutes, the motor reactivates and retracts the seat belt. If the seat belt still cannot be retracted by the motor, the pre-crash seat belt system has a malfunction. Have the system checked and repaired. It is recommended you visit an INFINITI retailer for this service.

THREE-POINT TYPE SEAT BELT

WARNING

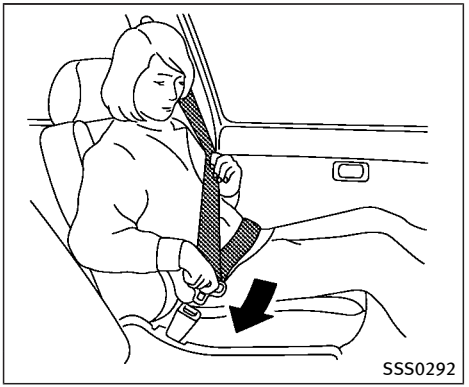
- **Every person who drives or rides in this vehicle should use a seat belt at all times.**
- **Do not ride in a moving vehicle when the seatback is reclined. This can be dangerous. The shoulder belt will not be against your body. In an accident, you could be thrown into it and receive neck or other serious injuries. You could also slide under the lap belt and receive serious internal injuries.**
- **For the most effective protection when the vehicle is in motion, the seat should be upright. Always sit well back and upright in the seat with both feet on the floor and adjust the seat belt properly.**



WARNING

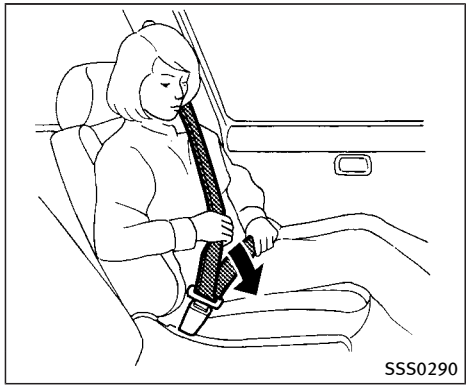
Do not allow children to play with the seat belts. Most seating positions are equipped with Automatic Locking Retractor (ALR) mode seat belts. If the seat belt becomes wrapped around a child's neck with the ALR mode activated, the child can be seriously injured or killed if the seat belt retracts and becomes tight. This can occur even if the vehicle is parked. Unbuckle the seat belt to release the child. For the center of the 3rd row bench seat, the connector tongue ① may also be released. Release the connector

tongue by inserting a suitable tool (such as a key) into the connector buckle Ⓐ. If the seat belt cannot be unbuckled or is already unbuckled, release the child by cutting the seat belt with a suitable tool (such as a knife or scissors) to release the seat belt.



Fastening the seat belts

1. Adjust the seat. (See “Seats” (P.1-3).)
2. Slowly pull the seat belt out of the retractor and insert the tongue into the buckle until you hear and feel the latch engage.
 - **The retractor is designed to lock during a sudden stop or on impact. A slow pulling motion permits the belt to move, and allows you some freedom of movement in the seat.**
 - **If the seat belt cannot be pulled from its fully retracted position, firmly pull the belt and release it. Then smoothly pull the belt out of the retractor.**


SSS0290

3. Position the lap belt portion **low and snug on the hips** as shown.
4. Pull the shoulder belt portion toward the retractor to take up extra slack. Be sure the shoulder belt is routed over your shoulder and across your chest.

The three-point type seat belts have two modes of operation:

- Emergency Locking Retractor (ELR)
- Automatic Locking Retractor (ALR)

The Emergency Locking Retractor (ELR) mode allows the seat belt to extend and retract to allow the driver and passengers some freedom of movement in the seat. The ELR locks the seat belt when the vehicle slows down rapidly or during impacts.

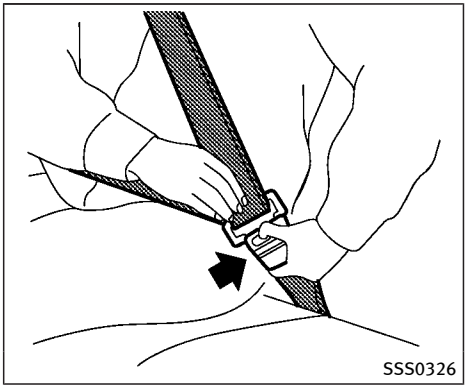
The Automatic Locking Retractor (ALR) mode (child restraint mode) locks the seat belt for child restraint installation.

When the ALR mode is activated the seat belt cannot be extended again until the seat belt tongue is detached from the buckle and fully retracted. The seat belt returns to the ELR mode after the seat belt fully retracts. For additional information, see “Child restraints” (P.1-32).

The ALR mode should be used only for child restraint installation. During normal seat belt use by an occupant, the ALR mode should not be activated. If it is activated, it may cause uncomfortable seat belt tension.

WARNING

When fastening the seat belts, be certain that seatbacks are completely secured in the latched position. If they are not completely secured, passengers may be injured in an accident or sudden stop.


SSS0326

Unfastening the seat belts

To unfasten the seat belt, push the button on the buckle. The seat belt automatically retracts.

Checking seat belt operation

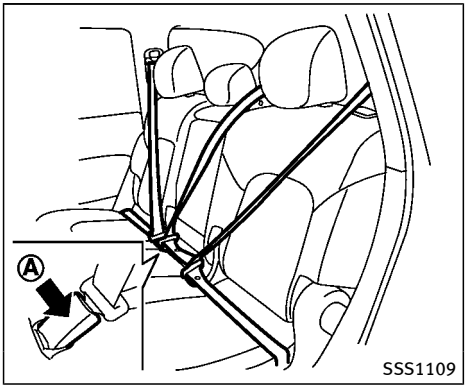
Seat belt retractors are designed to lock seat belt movement by two separate methods:

- When the belt is pulled quickly from the retractor.
- When the vehicle slows down rapidly.

To increase your confidence in the seat belts, check the operation as follows:

- Grasp the shoulder belt and pull forward quickly. The retractor should lock and restrict further belt movement.

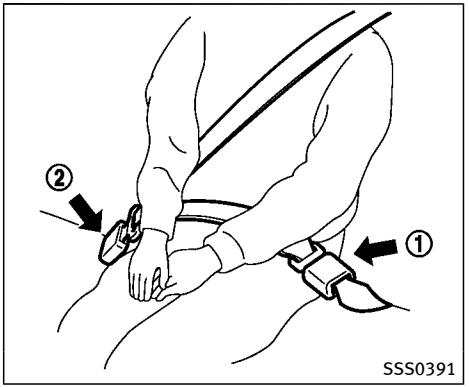
If the retractor does not lock during this check, get the system checked. It is recommended you visit an INFINITI retailer for this service, or to learn more about seat belt operation.



Center of 2nd row seat (if so equipped)

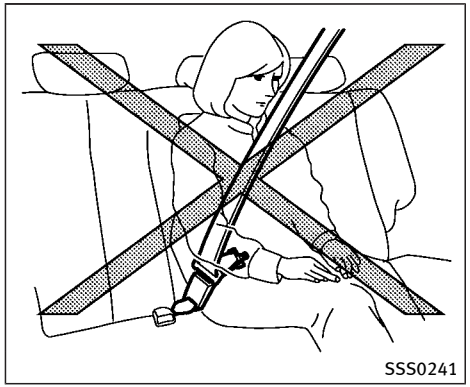
Selecting correct set of seat belts:

The center seat belt buckle is identified by the CENTER mark Ⓐ. The center seat belt tongue can be fastened **only** into the center seat belt buckle.



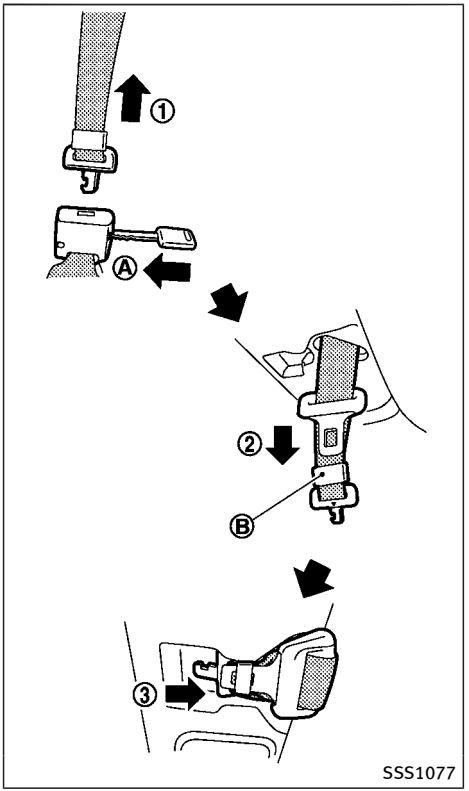
3rd row center seat belt

The 3rd row center seat belt has a connector tongue ① and a seat belt tongue ②. Both the connector tongue and the seat belt tongue must be securely latched for proper seat belt operation.


SSS0241

WARNING

- **Always fasten the connector tongue and the seat belt in the order shown.**
- **Always make sure both the connector tongue and the seat belt tongue are secured when using the seat belt or installing a child restraint. Do not use the seat belt or child restraint with only the seat belt tongue attached. This could result in serious personal injury in case of an accident or a sudden stop.**



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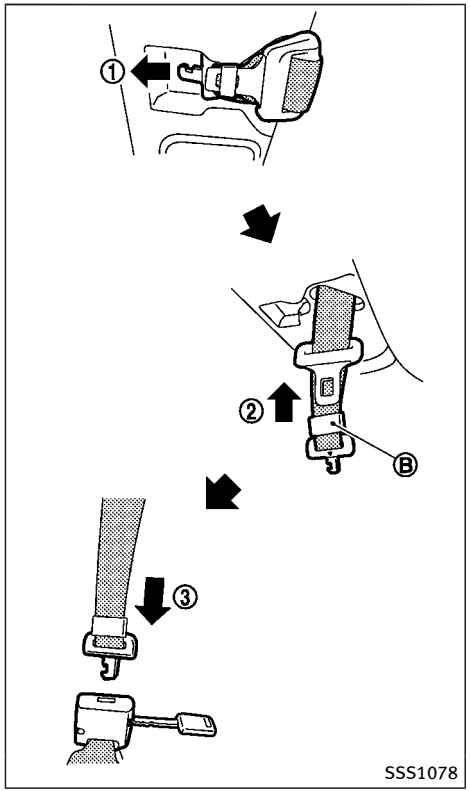
Stowing 3rd row center seat belt:

When folding down the 3rd row seat, the 3rd center seat belt can be retracted into a stowed position.

1. Hold the connector tongue ① so that the seat belt does not retract suddenly when the tongue is released from the connector buckle. Release the connector tongue by inserting a suitable tool such as key Ⓐ into the connector buckle.
2. Store the seat belt tongue into the tongue holder Ⓑ first ②.
3. Store the connector tongue into the retractor base ③.

WARNING

Do not unfasten the 3rd center seat belt connector except when folding down the 3rd seat.



Attaching 3rd row center seat belt:

Always be sure the 3rd center seat belt connector tongue and connector buckle are attached. Disconnect only when folding down the 3rd row seat.

To connect the buckle:

1. Pull out the connector tongue from the retractor base ①.
2. Pull out the seat belt tongue from the tongue holder Ⓑ ②.
3. Pull the seat belt and fasten the connector buckle until it clicks ③.

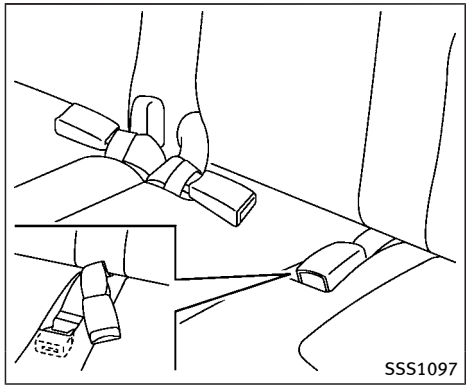
The center seat belt connector tongue and buckle are identified by the ▼ and ▲ mark.

The center seat belt connector tongue can be attached only into the 3rd center seat belt connector buckle.

To fasten the seat belt, see “Fastening the seat belts” (P.1-23).

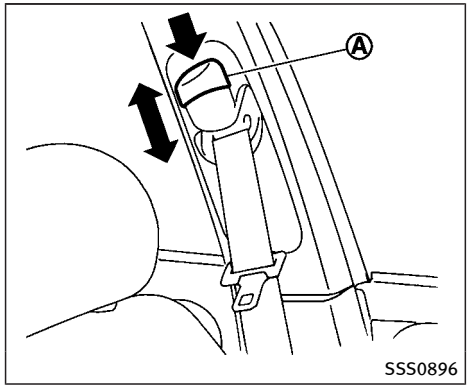
WARNING

- **When attaching the 3rd center seat belt connector, be certain that the seatbacks are completely secured in the latched position and the 3rd center seat belt connector is completely secured.**
- **If the 3rd center seat belt connector and the seatbacks are not secured in the correct position, serious personal injury may result in an accident or sudden stop.**



Storing 3rd row seat belt buckles

Before folding down the seat, put the buckles in the storage of the seat cushion to avoid dropping it under the seat cushion.



Shoulder belt height adjustment (for front seats and 2nd row seats)

The shoulder belt anchor height should be adjusted to the position best for you. (See “Precautions on seat belt usage” (P.1-19).)

To adjust, push the button Ⓐ, and then move the shoulder belt anchor to the desired position, so that the belt passes over the center of the shoulder. The belt should be away from your face and neck, but not falling off of your shoulder. Release the adjustment button to lock the shoulder belt anchor into position.

WARNING

- **After adjustment, release the adjustment button and try to move the shoulder belt anchor up and down to make sure it is securely fixed in position.**
- **The shoulder belt anchor height should be adjusted to the position best for you. Failure to do so may reduce the effectiveness of the entire restraint system and increase the chance or severity of injury in an accident.**

SEAT BELT EXTENDERS

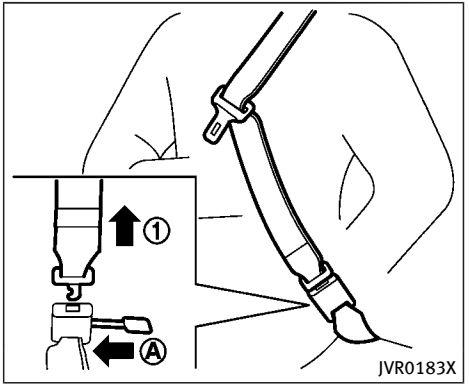
If, because of body size or driving position, it is not possible to properly fit the lap-shoulder belt and fasten it, an extender that is compatible with the installed seat belts is available that can be purchased. The extender adds approximately 8 in (200 mm) of length and may be used for either the driver or front passenger seating position. It is recommended you visit an INFINITI retailer for assistance with purchasing an extender if an extender is required.

WARNING

- **It is recommended that only INFINITI seat belt extenders, made by the same company which made the original equipment seat belts, be used with the INFINITI seat belts.**
- **Adults and children who can use the standard seat belt should not use an extender. Such unnecessary use could result in serious personal injury in the event of an accident.**
- **Never use seat belt extenders to install child restraints. If the child restraint is not secured properly, the child could be seriously injured or killed in a collision or a sudden stop.**

SEAT BELT MAINTENANCE

- **To clean the seat belt webbing,** apply a mild soap solution or any solution recommended for cleaning upholstery or carpets. Then, wipe with a cloth and allow the seat belts to dry in the shade. Do not allow the seat belts to retract until they are completely dry.
- **If dirt builds up in the shoulder belt guide** of the seat belt anchors, the seat belts may retract slowly. Wipe the shoulder belt guide with a clean, dry cloth.
- **Periodically check to see that the seat belt and the metal components** such as buckles, tongues, retractors, flexible wires and anchors work properly. If loose parts, deterioration, cuts or other damage on the webbing is found, the entire seat belt assembly should be replaced.



WARNING

Do not allow children to play with the seat belts. Most seating positions are equipped with Automatic Locking Retractor (ALR) mode seat belts. If the seat belt becomes wrapped around a child's neck with the ALR mode activated, the child can be seriously injured or killed if the seat belt retracts and becomes tight. This can occur even if the vehicle is parked. Unbuckle the seat belt to release the child. For the center of the 3rd row bench seat, the connector tongue ① may also be released. Release the connector

tongue by inserting a suitable tool (such as a key) into the connector buckle Ⓐ. If the seat belt cannot be unbuckled or is already unbuckled, release the child by cutting the seat belt with a suitable tool (such as a knife or scissors) to release the seat belt.

Children need adults to help protect them.

They need to be properly restrained.

In addition to the general information in this manual, child safety information is available from many other sources, including doctors, teachers, government traffic safety offices, and community organizations. Every child is different, so be sure to learn the best way to transport your child.

There are three basic types of child restraint systems:

- Rear-facing child restraint
- Forward-facing child restraint
- Booster seat

The proper restraint depends on the child's size. Generally, infants up to about 1 year and less than 20 lbs (9 kg) should be placed in rear-facing child restraints. Forward-facing child restraints are available for children who outgrow rear-facing child restraints and are at least 1 year old. Booster seats are used to help position a vehicle lap/shoulder belt on a child who can no longer use a forward-facing child restraint.

WARNING

Infants and children need special protection. The vehicle's seat belts may not fit them properly. The shoulder belt may come too close to the face or neck. The lap belt may not fit over their small hip bones. In an accident, an improperly fitting seat belt could cause serious or fatal injury. Always use appropriate child restraints.

All U.S. states and Canadian provinces or territories require the use of approved child restraints for infants and small children. See "Child restraints" (P.1-32).

A child restraint may be secured in the vehicle by using either the LATCH (Lower Anchor and Tethers for CHildren) system or with the vehicle seat belt. See "Child restraints" (P.1-32) for more information.

INFINITI recommends that all pre-teens and children be restrained in the rear seat. Studies show that children are safer when properly restrained in the rear seat than in the front seat.

This is especially important because your vehicle has a supplemental restraint system (Air bag system) for the front passenger. See "Supplemental restraint system" (P.1-54).

INFANTS

Infants up to at least 1 year old should be placed in a rear-facing child restraint. INFINITI recommends that infants be placed in child restraints that comply with Federal Motor Vehicle Safety Standards or Canadian Motor Vehicle Safety Standards. You should choose a child restraint that fits your vehicle and always follow the manufacturer's instructions for installation and use.

SMALL CHILDREN

Children that are over 1 year old and weigh at least 20 lbs (9 kg) should remain in a rear-facing child restraint as long as possible up to the height or weight limit of the child restraint. Children who outgrow the height or weight limit of the rear-facing child restraint and are at least 1 year old should be secured in a forward-facing child restraint with a harness. Refer to the

manufacturer's instructions for minimum and maximum weight and height recommendations. INFINITI recommends that small children be placed in child restraints that comply with Federal Motor Vehicle Safety Standards or Canadian Motor Vehicle Safety Standards. You should choose a child restraint that fits your vehicle and always follow the manufacturer's instructions for installation and use.

LARGER CHILDREN

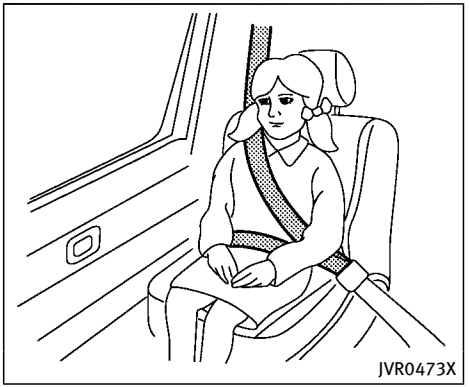
Children should remain in a forward-facing child restraint with a harness until they reach the maximum height or weight limit allowed by the child restraint manufacturer.

Once a child outgrows the height or weight limit of the harness-equipped forward-facing child restraint, INFINITI recommends that the child be placed in a commercially available booster seat to obtain proper seat belt fit. For a seat belt to fit properly, the booster seat should raise the child so that the shoulder belt is properly positioned across the chest and the top, middle portion of the shoulder. The shoulder belt should not cross the neck or face and should not fall off the shoulder. The lap belt should lie snugly across the lower hips or upper thighs, not the abdomen.

A booster seat can only be used in seating positions that have a three-point type seat belt. The booster seat should fit the vehicle seat and have a label certifying that it complies with Federal Motor Vehicle Safety Standards or Canadian Motor Vehicle Safety Standards.

A booster seat should be used until the child can pass the seat belt fit test below:

- Are the child's back and hips against the vehicle seatback?
- Is the child able to sit without slouching?
- Do the child's knees bend easily over the front edge of the seat with feet flat on the floor?
- Can the child safely wear the seat belt (lap belt low and snug across the hips and shoulder belt across mid-chest and shoulder)?
- Is the child able to use the properly adjusted head restraint/headrest?
- Will the child be able to stay in position for the entire ride?


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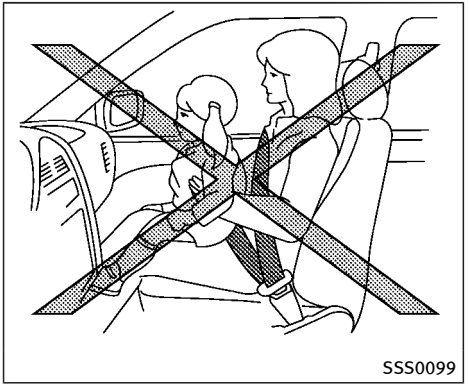
If you answered no to any of these questions, the child should remain in a booster seat using a three-point type seat belt.

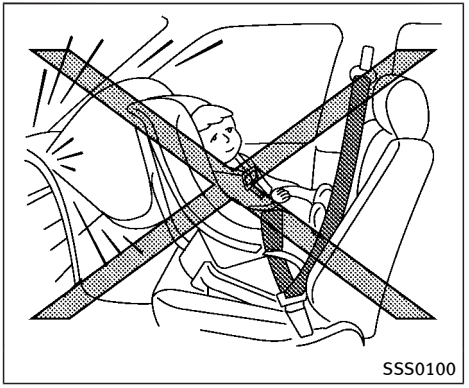
NOTE:

Laws in some communities may follow different guidelines. Check local and state regulations to confirm your child is using the correct restraint system before traveling.

WARNING

Never let a child stand or kneel on any seat and do not allow a child in the cargo area. The child could be seriously injured or killed in a sudden stop or collision.


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PRECAUTIONS ON CHILD RESTRAINTS

WARNING

- **Failure to follow the warnings and instructions for proper use and installation of child restraints could result in serious injury or death of a child or other passengers in a sudden stop or collision:**
 - **— The child restraint must be used and installed properly. Always follow all of the child restraint manufacturer's instructions for installation and use.**
 - **— Infants and children should never be held on anyone's lap. Even the strongest adult cannot resist the forces of a collision.**
 - **— Do not put a seat belt around both a child and another passenger.**
 - **— INFINITI recommends that all child restraints be installed in the rear seat. Studies show that children are safer when properly restrained in the rear seat than in the front seat. If you must install a forward-facing child restraint in the front seat, see "For-**

ward-facing child restraint installation using the seat belts" (P.1-46).

— Even with the INFINITI Advanced Air Bag System, never install a rear-facing child restraint in the front seat. An inflating air bag could seriously injure or kill a child. A rear-facing child restraint must only be used in the rear seat.

— Be sure to purchase a child restraint that will fit the child and vehicle. Some child restraints may not fit properly in your vehicle.

— Child restraint anchor points are designed to withstand loads from child restraints that are properly fitted.

— Never use the anchor points for adult seat belts or harnesses.

— A child restraint with a top tether strap should not be used in the front passenger seat.

— Keep seatbacks as upright as possible after fitting the child restraint.

— Infants and children should always be placed in an appropriate child restraint while in the vehicle.

- **When the child restraint is not in use, keep it secured with the LATCH system or a seat belt. In a sudden stop or collision, loose objects can injure occupants or damage the vehicle.**

⚠ CAUTION

A child restraint in a closed vehicle can become very hot. Check the seating surface and buckles before placing a child in the child restraint.

This vehicle is equipped with a universal child restraint anchor system, referred to as the LATCH (Lower Anchors and Tethers for CHildren) system. Some child restraints include rigid or webbing-mounted attachments that can be connected to these anchors.

For details, see "Lower Anchors and Tethers for CHildren System (LATCH)" (P.1-34).

If you do not have a LATCH compatible child restraint, the vehicle seat belts can be used.

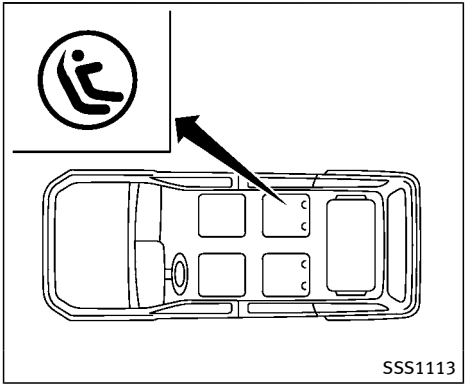
Several manufacturers offer child restraints for infants and small children of various sizes. When selecting any child restraint, keep the following points in mind:

- Choose only a restraint with a label certifying that it complies with Federal Motor Vehicle Safety Standard 213 or Canadian Motor Vehicle Safety Standard 213.
- Check the child restraint in your vehicle to be sure it is compatible with the vehicle's seat and seat belt system.
- If the child restraint is compatible with your vehicle, place your child in the child restraint and check the various adjustments to be sure the child restraint is compatible with your child. Choose a child restraint that is designed for your child's height and weight. Always follow all recommended procedures.
- If the combined weight of the child and child restraint is less than 65 lbs (29.5 kg), you may use either the LATCH lower anchors or the seat belt to install the child restraint (not both at the same time).
- If the combined weight of the child and child restraint is greater than 65 lbs

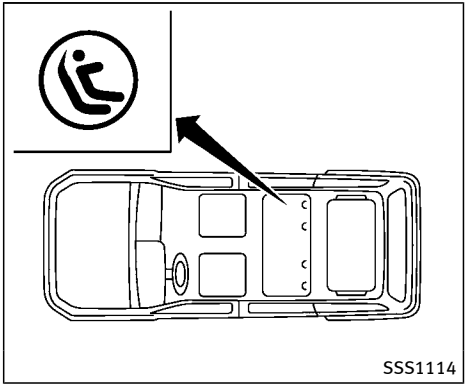
(29.5 kg), use the vehicle's seat belt (not the lower anchors) to install the child restraint.

- Be sure to follow the child restraint manufacturer's instructions for installation.

All U.S. states and Canadian provinces or territories require that infants and small children be restrained in an approved child restraint at all times while the vehicle is being operated. Canadian law requires the top tether strap on forward-facing child restraints be secured to the designated anchor point on the vehicle.



LATCH system lower anchor locations - captain's seats



LATCH system lower anchor locations - bench seat

Lower Anchors and Tethers for CHildren System (LATCH)

Your vehicle is equipped with special anchor points that are used with the LATCH (Lower Anchors and Tethers for CHildren) system compatible child restraints. This system may also be referred to as the ISOFIX or ISOFIX compatible system. With this system, you do not have to use a vehicle seat belt to secure the child restraint unless the combined weight of the child and child restraint exceeds 65 lbs (29.5 kg). If the combined weight of the

child and child restraint is greater than 65 lbs (29.5 kg), use the vehicle's seat belt (not the lower anchors) to install the child restraint. Be sure to follow the child restraint manufacturer's instructions for installation.

The LATCH lower anchor points are provided to install child restraints in the following positions only:

- 2nd row captain's seats (if so equipped)
- 2nd row bench seat outboard positions only (if so equipped)

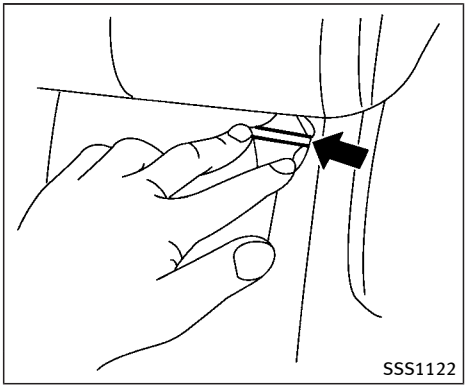
LATCH lower anchor

WARNING

Failure to follow the warnings and instructions for proper use and installation of child restraints could result in serious injury or death of a child or other passengers in a sudden stop or collision:

- **Attach LATCH system compatible child restraints only at the locations shown in the illustration.**
- **Do not secure a child restraint in the center rear seating position using the LATCH lower anchors. The child restraint will not be secured properly.**
- **Inspect the lower anchors by inserting your fingers into the lower anchor area. Feel to make sure there are no obstructions over the anchors such as seat belt webbing or seat cushion material. The child restraint will not be secured properly if the lower anchors are obstructed.**

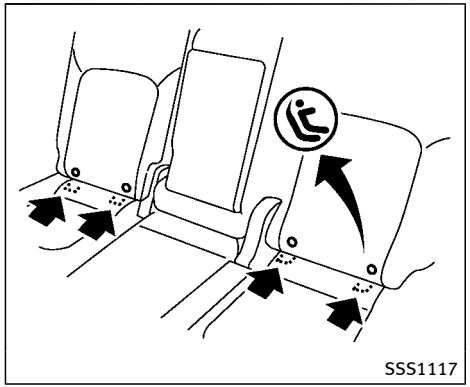
Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used to attach adult seat belts, or other items or equipment to the vehicle. Doing so could damage the child restraint anchorages. The child restraint will not be properly installed using the damaged anchorage, and a child could be seriously injured or killed in a collision.

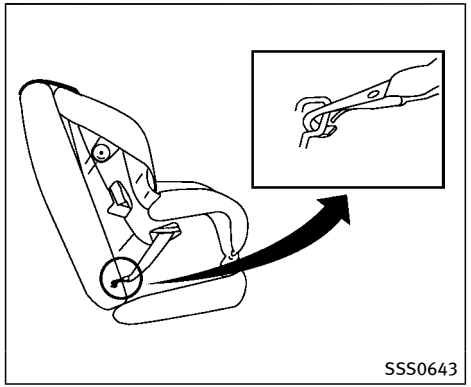


LATCH lower anchor location

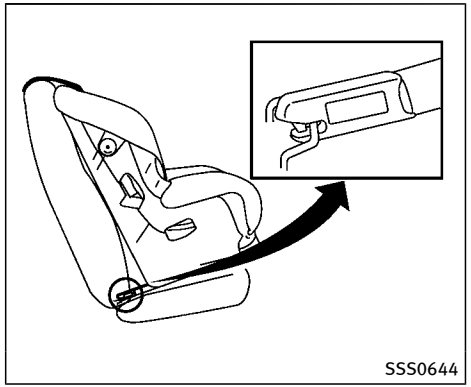
LATCH lower anchor location

The LATCH lower anchors are located at the rear of the seat cushion near the seatback. A label is attached to the seatback to help you locate the LATCH lower anchors.





LATCH webbing-mounted attachment

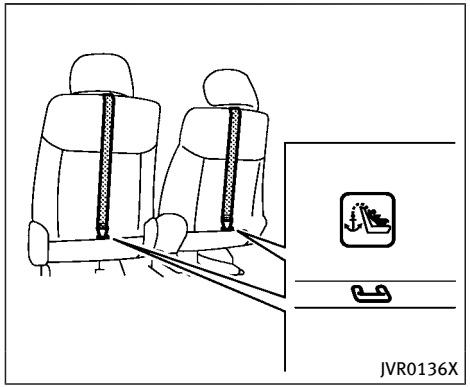


LATCH rigid-mounted attachment

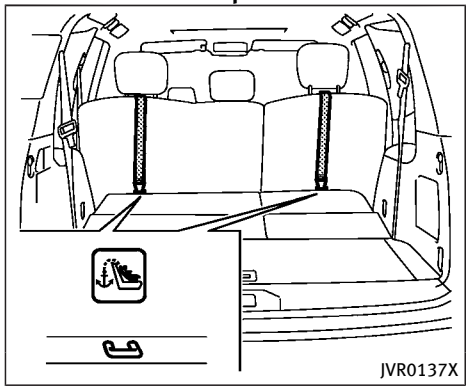
Installing child restraint LATCH lower anchor attachments

LATCH compatible child restraints include two rigid or webbing-mounted attachments that can be connected to two anchors located at certain seating positions in your vehicle. With this system, you do not have to use a vehicle seat belt to secure the child restraint. Check your child restraint for a label stating that it is compatible with LATCH. This information may also be in the instructions provided by the child restraint manufacturer.

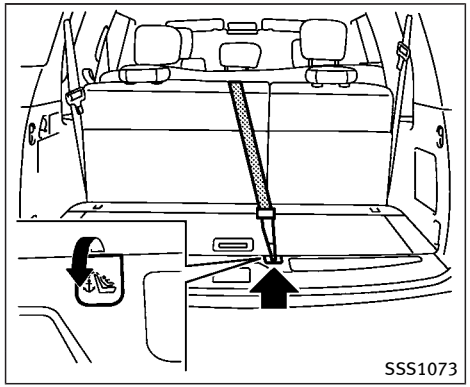
When installing a child restraint, carefully read and follow the instructions in this manual and those supplied with the child restraint.



2nd row captain's seat



2nd row bench seat



3rd row bench seat

TOP TETHER STRAP CHILD RESTRAINT

If the manufacturer of your child restraint requires the use of a top tether strap, it must be secured to an anchor point.

WARNING

- **In the 3rd row bench seat, a child restraint with a top tether strap can only be used in the center position. Do not place in an outboard seating position and attempt to angle the tether strap to the center position.**
- **Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used to attach adult seat belts, or other items or equipment to the vehicle. Doing so could damage the child restraint anchorages. The child restraint will not be properly installed using the damaged anchorage, and a child could be seriously injured or killed in a collision.**
- **Properly secure cargo and do not allow it to contact the top tether strap when it is attached to the top tether anchor. Cargo that is not properly secured or cargo that contacts the top tether strap may damage the top tether strap during a collision. Your child could be seriously injured or killed in a collision if the child restraint top tether strap is damaged.**

Top tether anchor point locations

Anchor points are located in the following locations:

- 2nd row bench seat (if so equipped) on the seatback of the outboard seating positions as shown.

- 2nd row captain's seats (if so equipped) on the seatback of the outboard seating positions as shown.
- 3rd row bench seat on the floor of the cargo area behind the center seat position as shown.

If you have any questions when installing a top tether strap child restraint on the rear seat, it is recommended you visit an INFINITI retailer for this service.

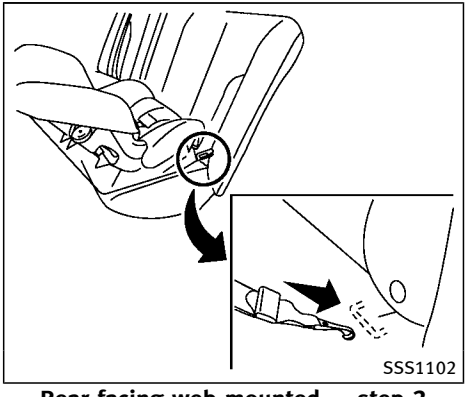
REAR-FACING CHILD RESTRAINT INSTALLATION USING LATCH

Refer to all Warnings and Cautions in the "Child safety" and "Child restraints" sections before installing a child restraint.

Do not use the lower anchors if the combined weight of the child and the child restraint exceeds 65 lbs (29.5 kg). If the combined weight of the child and the child restraint is greater than 65 lbs (29.5 kg), use the vehicle's seat belt (not the lower anchors) to install the child restraint. Be sure to follow the child restraint manufacturer's instructions for installation.

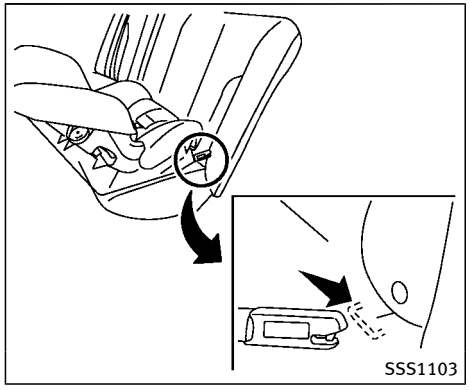
Follow these steps to install a rear-facing child restraint in the 2nd row seats using the LATCH system:

1. Position the child restraint on the seat. Always follow the child restraint manufacturer's instructions.

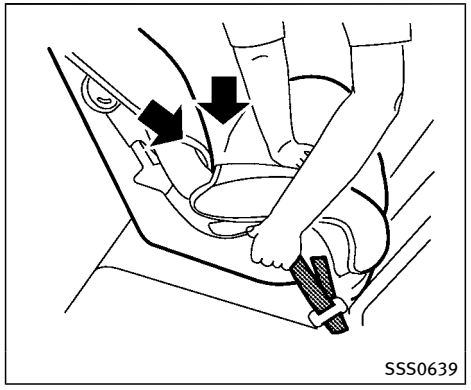


Rear-facing web-mounted — step 2

2. Secure the child restraint anchor attachments to the LATCH lower anchors. Check to make sure the LATCH attachment is properly attached to the lower anchors.

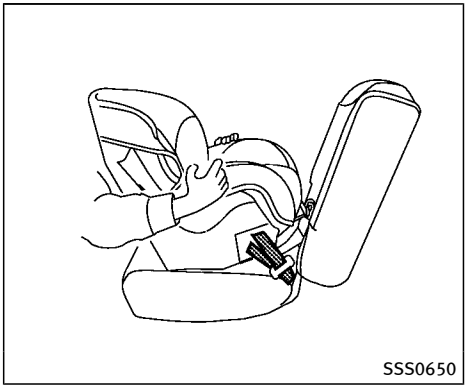


Rear-facing rigid-mounted — step 2



Rear-facing — step 3

3. For child restraints that are equipped with webbing-mounted attachments, remove any additional slack from the anchor attachments. Press downward and rearward firmly in the center of the child restraint with your hand to compress the vehicle seat cushion and seatback while tightening the webbing of the anchor attachments.



Rear-facing — step 4

4. After attaching the child restraint, test it before you place the child in it. Push it from side to side while holding the child restraint near the LATCH attachment path. The child restraint should not move more than 1 inch (25 mm), from side to side. Try to tug it forward and check to see if the LATCH attachment holds the restraint in place. If the restraint is not secure, tighten the LATCH attachment as necessary, or put the restraint in another seat and test it again. You may need to try a different child restraint or try installing by using the vehicle seat belt (if applicable). Not

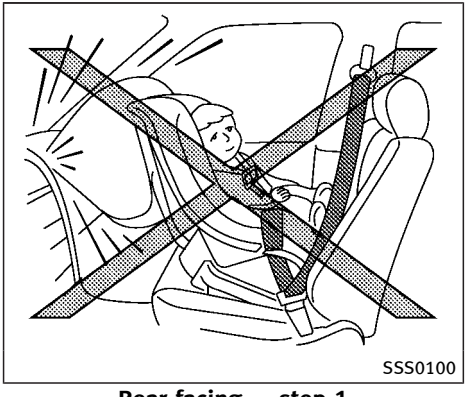
all child restraints fit in all types of vehicles.

5. Check to make sure the child restraint is properly secured prior to each use. If the child restraint is loose, repeat steps 1 through 4.

REAR-FACING CHILD RESTRAINT INSTALLATION USING THE SEAT BELTS

⚠ WARNING

- **The three-point seat belt with Automatic Locking Retractor (ALR) must be used when installing a child restraint. Failure to use the ALR mode will result in the child restraint not being properly secured. The restraint could tip over or be loose and cause injury to a child in a sudden stop or collision. Also, it can change the operation of the front passenger air bag. See "Front passenger air bag and status light" (P.1-62).**
- **When installing a child restraint system in the 3rd center seat position, both the center seat belt connector tongue and buckle tongue must be secured. See "3rd row center seat belt" (P.1-25).**



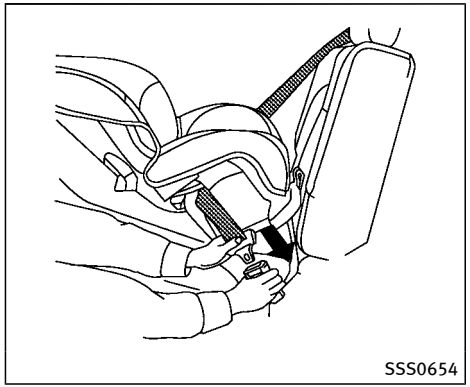
Rear-facing — step 1

Refer to all Warnings and Cautions in the "Child safety" (P.1-29) and "Child restraints" (P.1-32) before installing a child restraint.

Do not use the lower anchors if the combined weight of the child and the child restraint exceeds 65 lbs (29.5 kg). If the combined weight of the child and the child restraint is greater than 65 lbs (29.5 kg), use the vehicle's seat belt (not the lower anchors) to install the child restraint. Be sure to follow the child restraint manufacturer's instructions for installation.

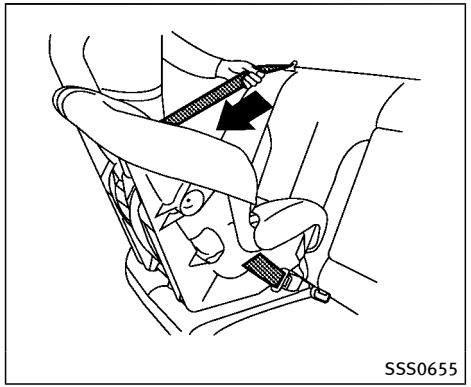
Follow these steps to install a rear-facing child restraint using the vehicle seat belts in the rear seats:

1. **Child restraints for infants must be used in the rear-facing direction and therefore must not be used in the front seat.** Position the child restraint on the seat. Always follow the restraint manufacturer's instructions.



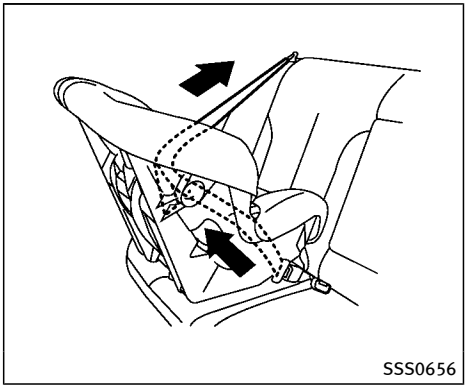
Rear-facing — step 2

2. Route the seat belt tongue through the child restraint and insert it into the buckle until you hear and feel the latch engage. Be sure to follow the child restraint manufacturer's instructions for belt routing.



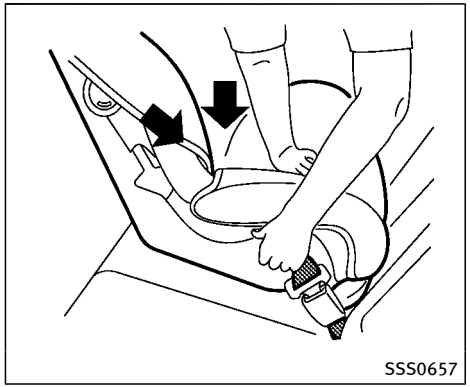
Rear-facing — step 3

3. Pull the shoulder belt until the belt is fully extended. At this time, the seat belt retractor is in the Automatic Locking Retractor (ALR) mode (child restraint mode). It reverts to the Emergency Locking Retractor (ELR) mode when the seat belt is fully retracted.



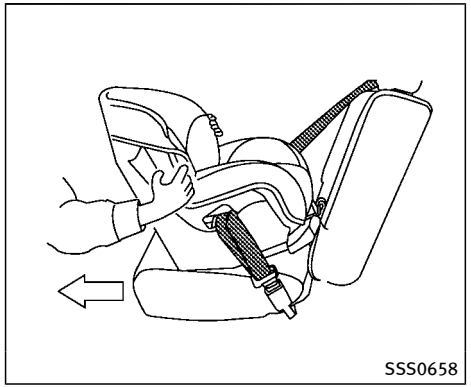
Rear-facing — step 4

4. Allow the seat belt to retract. Pull up on the shoulder belt to remove any slack in the belt.



Rear-facing — step 5

5. Remove any additional slack from the seat belt; press downward and rearward firmly in the center of the child restraint to compress the vehicle seat cushion and seatback while pulling up on the seat belt.



Rear-facing — step 6

6. After attaching the child restraint, test it before you place the child in it. Push it from side to side while holding the child restraint near the seat belt path. The child restraint should not move more than 1 inch (25 mm), from side to side. Try to tug it forward and check to see if the belt holds the restraint in place. If the restraint is not secure, tighten the seat belt as necessary, or put the restraint in another seat and test it again. You may need to try a different child restraint. Not all child restraints fit in all types of vehicles.
7. Check to make sure that the child restraint is properly secured prior to each use. If the seat belt is not locked, repeat steps 1 through 6.

After the child restraint is removed and the seat belt fully retracted, the ALR mode (child restraint mode) is canceled.

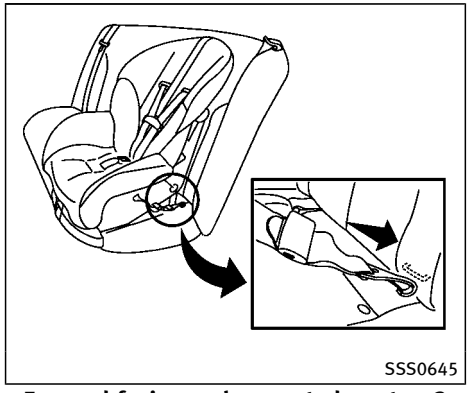
FORWARD-FACING CHILD RESTRAINT INSTALLATION USING LATCH

Refer to all Warnings and Cautions in the “Child safety” and “Child restraints” sections before installing a child restraint.

Do not use the lower anchors if the combined weight of the child and the child restraint exceeds 65 lbs (29.5 kg). If the combined weight of the child and the child restraint is greater than 65 lbs (29.5 kg), use the vehicle’s seat belt (not the lower anchors) to install the child restraint. Be sure to follow the child restraint manufacturer’s instructions for installation.

Follow these steps to install a forward-facing child restraint using the LATCH system:

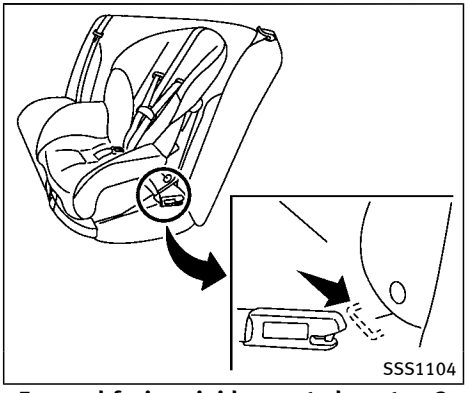
1. Position the child restraint on the seat. Always follow the child restraint manufacturer's instructions.



Forward-facing web-mounted — step 2

2. Secure the child restraint anchor attachments to the LATCH lower anchors. Check to make sure the LATCH attachment is properly attached to the lower anchors.

 If the child restraint is equipped with a top tether strap, route the top tether strap and secure the tether strap to the tether anchor point. See "Installing top tether strap" (P.1-45). Do not install child restraints that require the use of a top tether strap in seating positions that do not have a top tether anchor.



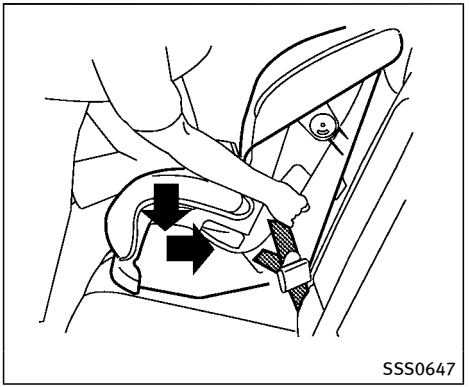
Forward-facing rigid-mounted — step 2

3. The back of the child restraint should be secured against the vehicle seatback.

 If necessary, adjust or remove the head restraint to obtain the correct child restraint fit. If the head restraint is removed, store it in a secure place. **Be sure to reinstall the head restraint when the child restraint is removed.** See "Head restraints/headrests" (P.1-13) for head restraint adjustment information.

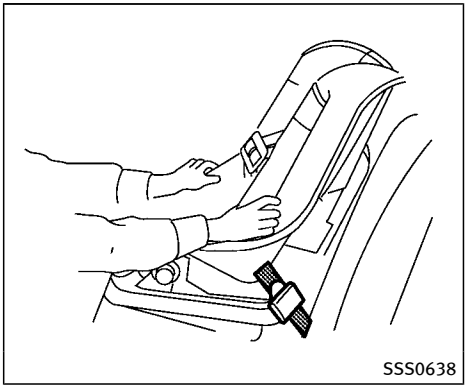
 If the seating position does not have an adjustable head restraint or a headrest

and it is interfering with the proper child restraint fit, try another seating position or a different child restraint.



Forward-facing — step 4

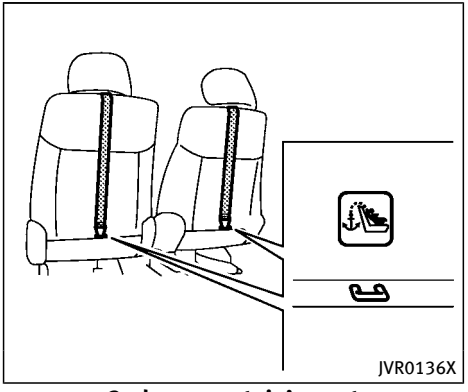
4. For child restraints that are equipped with webbing-mounted attachments, remove any additional slack from the anchor attachments. Press downward and rearward firmly in the center of the child restraint with your knee to compress the vehicle seat cushion and seatback while tightening the webbing of the anchor attachments.
5. Tighten the tether strap according to the manufacturer's instructions to remove any slack.



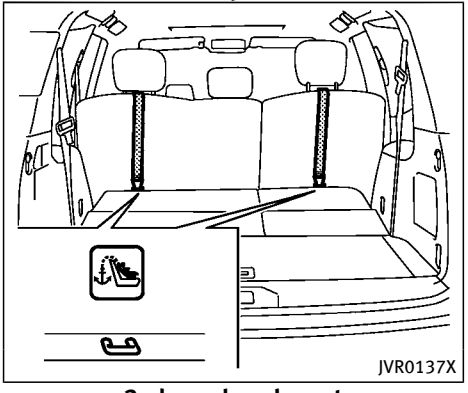
Forward-facing — step 6

6. After attaching the child restraint, test it before you place the child in it. Push it from side to side while holding the child restraint near the LATCH attachment path. The child restraint should not move more than 1 inch (25 mm), from side to side. Try to tug it forward and check to see if the LATCH attachment holds the restraint in place. If the restraint is not secure, tighten the LATCH attachment as necessary, or put the restraint in another seat and test it again. You may need to try a different child restraint. Not all child restraints fit in all types of vehicles.

7. Check to make sure the child restraint is properly secured prior to each use. If the child restraint is loose, repeat steps 1 through 6.



2nd row captain's seat



2nd row bench seat

Installing top tether strap

First, secure the child restraint with the LATCH lower anchors (2nd row captain's or bench outboard seating positions only).

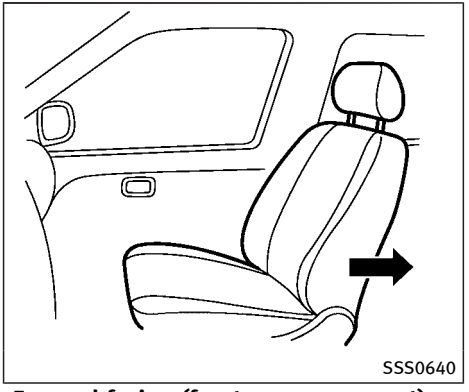
1. If necessary, raise or remove the head restraint or headrest to position the top tether strap over the top of the seatback. If the head restraint or headrest is removed, store it in a secure place. Be sure to reinstall the head restraint or headrest when the child restraint is removed. See "Head restraints/headrests" (P.1-13) for head restraint or headrest adjustment, removal and installation information.
2. Secure the tether strap to the tether anchor point on the back of each seatback behind the child restraint.
3. Tighten the tether strap according to the manufacturer's instructions to remove any slack. Make sure the head restraint or headrest does not contact the top tether strap.

If you have any questions when installing a top tether strap on the rear seat, it is recommended you visit an INFINITI retailer for this service.

FORWARD-FACING CHILD RESTRAINT INSTALLATION USING THE SEAT BELTS

WARNING

- **The three-point seat belt with Automatic Locking Retractor (ALR) must be used when installing a child restraint. Failure to use the ALR mode will result in the child restraint not being properly secured. The restraint could tip over or be loose and cause injury to a child in a sudden stop or collision. Also, it can change the operation of the front passenger air bag. See "Front passenger air bag and status light" (P.1-62)**
- **When installing a child restraint system in the 3rd center position, both the center seat belt connector tongue and buckle tongue must be secured. See "3rd row center seat belt" (P.1-25).**



Forward-facing (front passenger seat) — step 1

Refer to all Warnings and Cautions in the "Child safety" and "Child restraints" sections before installing a child restraint.

Do not use the lower anchors if the combined weight of the child and the child restraint exceeds 65 lbs (29.5 kg). If the combined weight of the child and the child restraint is greater than 65 lbs (29.5 kg), use the vehicle's seat belt (not the lower anchors) to install the child restraint. Be sure to follow the child restraint manufacturer's instructions for installation.

Follow these steps to install a forward-facing child restraint using the vehicle seat belt in the rear seats or in the front passenger seat:

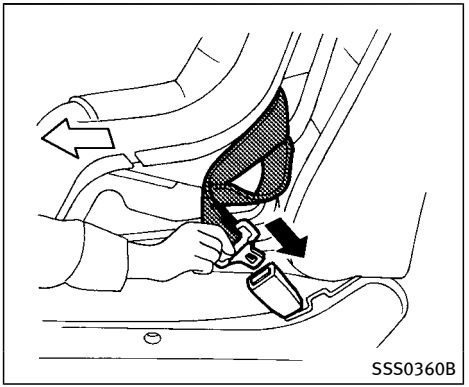
1. **If you must install a child restraint in the front seat, it should be placed in a forward-facing direction only. Move the seat to the rearmost position. Child restraints for infants must be used in the rear-facing direction and, therefore, must not be used in the front seat.**
2. Position the child restraint on the seat. Always follow the child restraint manufacturer's instructions.

 The back of the child restraint should be secured against the vehicle seatback.

 If necessary, adjust or remove the head restraint or headrest to obtain the correct child restraint fit. If the head restraint or headrest is removed, store it in a secure place. **Be sure to reinstall the head restraint or headrest when the child restraint is removed.** See "Head restraints/headrests" (P.1-13) for head restraint or headrest adjustment, removal and installation information.

 If the seating position does not have an adjustable head restraint or a headrest

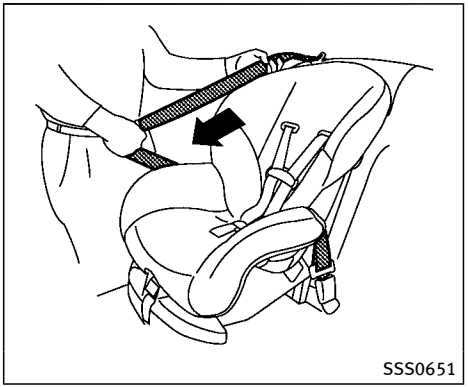
and it is interfering with the proper child restraint fit, try another seating position or a different child restraint.



Forward-facing — step 3

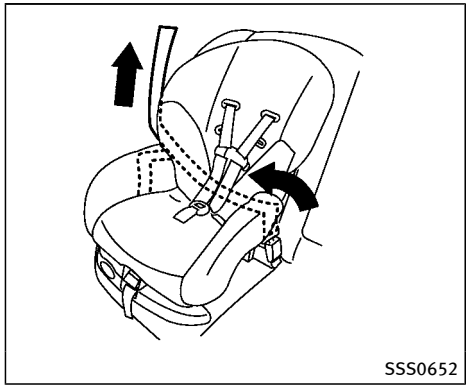
3. Route the seat belt tongue through the child restraint and insert it into the buckle until you hear and feel the latch engage. Be sure to follow the child restraint manufacturer's instructions for belt routing.

 If the child restraint is equipped with a top tether strap, route the top tether strap and secure the tether strap to the tether anchor point (rear seat installation only). See "Installing top tether strap" (P.1-50). Do not install child restraints that require the use of a top tether strap in seating positions that do not have a top tether anchor.



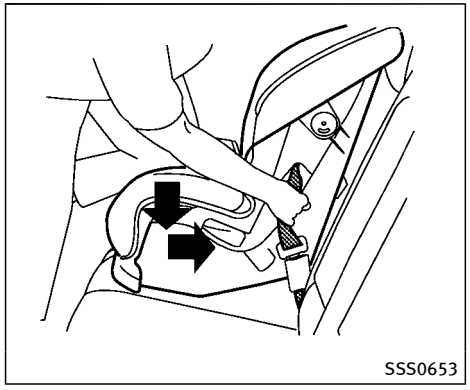
Forward-facing — step 4

4. Pull the shoulder belt until the belt is fully extended. At this time, the seat belt retractor is in the Automatic Locking Retractor (ALR) mode (child restraint mode). It reverts to Emergency Locking Retractor (ELR) mode when the seat belt is fully retracted.



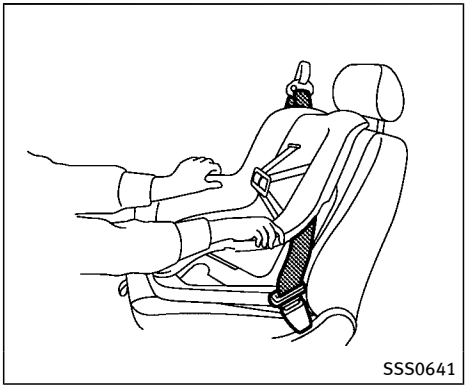
Forward-facing — step 5

5. Allow the seat belt to retract. Pull up on the shoulder belt to remove any slack in the belt.



Forward-facing — step 6

6. Remove any additional slack from the seat belt; press downward and rearward firmly in the center of the child restraint with your knee to compress the vehicle seat cushion and seatback while pulling up on the seat belt.
7. Tighten the tether strap according to the manufacturer's instructions to remove any slack.



Forward-facing — step 8

8. After attaching the child restraint, test it before you place the child in it. Push it from side to side while holding the child restraint near the seat belt path. The child restraint should not move more than 1 inch (25 mm), from side to side. Try to tug it forward and check to see if the belt holds the restraint in place. If the restraint is not secure, tighten the seat belt as necessary, or put the restraint in another seat and test it again. You may need to try a different child restraint. Not all child restraints fit in all types of vehicles.

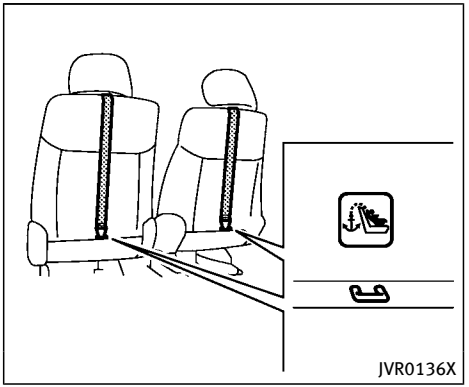
9. Check to make sure the child restraint is properly secured prior to each use. If the seat belt is not locked, repeat steps 2 through 8.



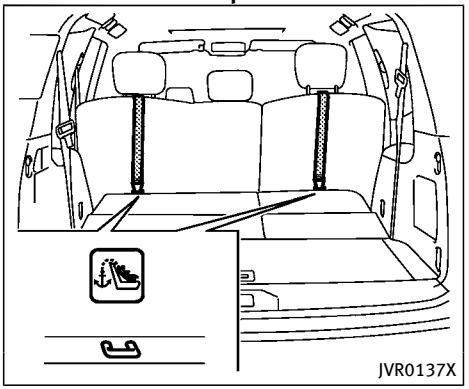
Forward-facing — step 10

10. If the child restraint is installed in the front passenger seat, place the ignition switch in the ON position. The front passenger air bag status light should illuminate. If this light is not illuminated, see “Front passenger air bag and status light” (P.1-62). **Move the child restraint to another seating position.** Have the system checked. It is recommended you visit an INFINITI retailer for this service.

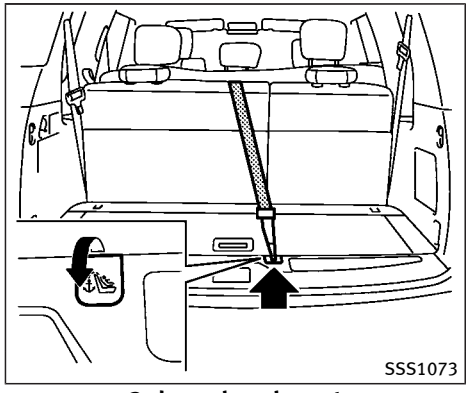
After the child restraint is removed and the seat belt is fully retracted, the ALR mode (child restraint mode) is canceled.



2nd row captain’s seat



2nd row bench seat



3rd row bench seat

Installing top tether strap

WARNING

In the 3rd row bench seat, a child restraint with a top tether strap can only be used in the center position. Do not place in an outboard seating position and attempt to angle the tether strap to the center position.

First, secure the child restraint with the seat belt.

1. If necessary, raise or remove the head restraint or headrest to position the top tether strap over the top of the seatback. If the head restraint or headrest is removed, store it in a secure place. Be sure to reinstall the head restraint or headrest when the child restraint is removed. See “Head restraints/headrests” (P.1-13) for head restraint or headrest adjustment, removal and installation information.
2. Secure the tether strap to the tether anchor point on the back of each seatback (2nd row seat) or on the floor (3rd row seat) behind the child restraint.
3. Tighten the tether strap according to the manufacturer’s instructions to remove any slack. Make sure the head restraint or headrest does not contact the top tether strap.

If you have any questions when installing a top tether strap on the rear seat, it is recommended you visit an INFINITI retailer for this service.

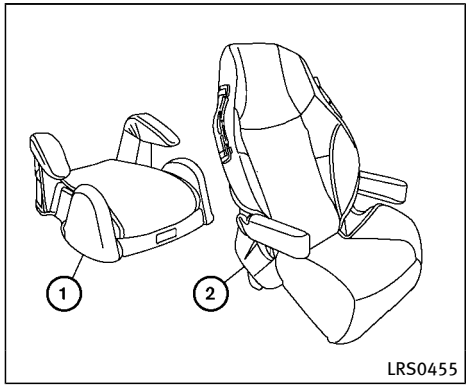
BOOSTER SEATS

Precautions on booster seats

WARNING

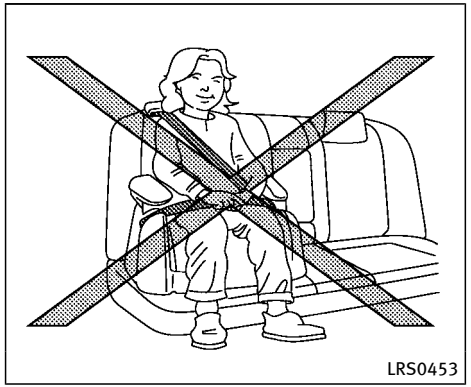
If a booster seat and seat belt are not used properly, the risk of a child being injured in a sudden stop or collision greatly increases:

- **Make sure the shoulder portion of the belt is away from the child’s face and neck and the lap portion of the belt does not cross the stomach.**
- **Make sure the shoulder belt is not behind the child or under the child’s arm.**
- **A booster seat must only be installed in a seating position that has a lap/shoulder belt.**

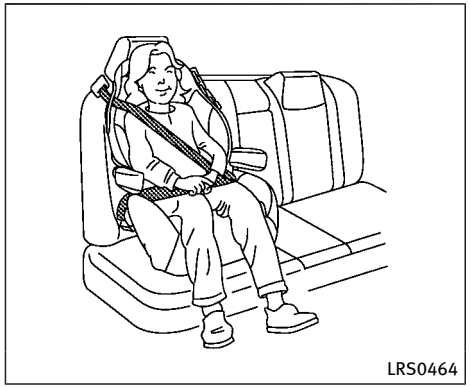


Booster seats of various sizes are offered by several manufacturers. When selecting any booster seat, keep the following points in mind:

- Choose only a booster seat with a label certifying that it complies with Federal Motor Vehicle Safety Standard 213 or Canadian Motor Vehicle Safety Standard 213.
- Check the booster seat in your vehicle to be sure it is compatible with the vehicle's seat and seat belt system.



- Make sure the child's head will be properly supported by the booster seat or vehicle seat. The seatback must be at or above the center of the child's ears. For example, if a low back booster seat ① is chosen, the vehicle seatback must be at or above the center of the child's ears. If the seatback is lower than the center of the child's ears, a high back booster seat ② should be used.
- If the booster seat is compatible with your vehicle, place your child in the booster seat and check the various adjustments to be sure the booster seat is compatible with your child. Always follow all recommended procedures.


LRS0464

All U.S. states and Canadian provinces or territories require that infants and small children be restrained in an approved child restraint at all times while the vehicle is being operated.

The instructions in this section apply to booster seat installation in the rear seats or the front passenger seat.

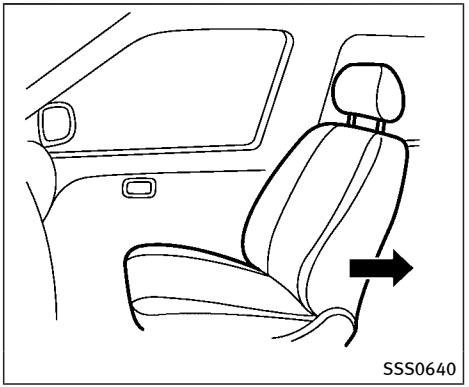
Booster seat installation

CAUTION

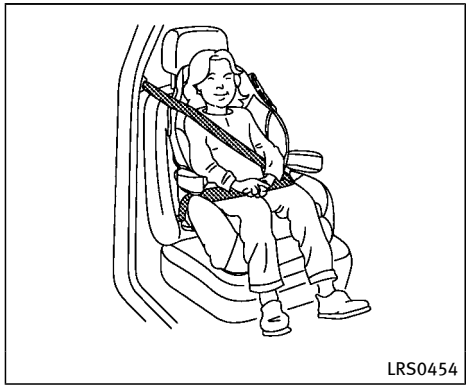
Do not use the lap/shoulder belt Automatic Locking Retractor (ALR) mode when using a booster seat with the seat belts.

Refer to all Warnings and Cautions in the “Child safety”, “Child restraints” and “Booster seats” sections earlier in this section before installing a child restraint.

Follow these steps to install a booster seat in the rear seat or in the front passenger seat:


SSS0640

1. **If you must install a booster seat in the front seat, move the seat to the rearmost position.**
2. Position the booster seat on the seat. Only place it in a forward-facing direction. Always follow the booster seat manufacturer’s instructions.


LRS0454

Front passenger position

3. The booster seat should be positioned on the vehicle seat so that it is stable.

 If necessary, adjust or remove the head restraint or headrest to obtain the correct booster seat fit. If the head restraint or headrest is removed, store it in a secure place. **Be sure to reinstall the head restraint or headrest when the booster seat is removed.** See “Head restraints/headrests” (P.1-13) for head restraint or headrest adjustment, removal and installation information.

 If the seating position does not have an adjustable head restraint or a headrest and it is interfering with the proper booster seat fit, try another seating position or a different booster seat.
4. Position the lap portion of the seat belt low and snug on the child’s hips. Be sure to follow the booster seat manufacturer’s instructions for adjusting the seat belt routing.
5. Pull the shoulder belt portion of the seat belt toward the retractor to take up extra slack. Be sure the shoulder belt is positioned across the top, middle portion of the child’s shoulder. Be sure to follow the booster seat manufacturer’s instructions for adjusting the seat belt routing.
6. Follow the warnings, cautions and instructions for properly fastening a seat belt shown in “Seat belts” (P.1-19).



SSS1099

7. If the booster seat is installed in the front passenger seat, push the ignition switch to the ON position. The front passenger air bag status light may or may not illuminate depending on the size of the child and the type of booster seat used. See “Front passenger air bag and status light” (P.1-62).

PRECAUTIONS ON SUPPLEMENTAL RESTRAINT SYSTEM

This Supplemental Restraint System (SRS) section contains important information concerning the following systems.

- Driver and passenger supplemental front-impact air bag (INFINITI Advanced Air Bag System)
- Front seat-mounted side-impact supplemental air bag
- Roof-mounted curtain side-impact and rollover supplemental air bag
- Seat belt with pretensioner

Supplemental front-impact air bag system: The INFINITI Advanced Air Bag System can help cushion the impact force to the head and chest of the driver and front passenger in certain frontal collisions.

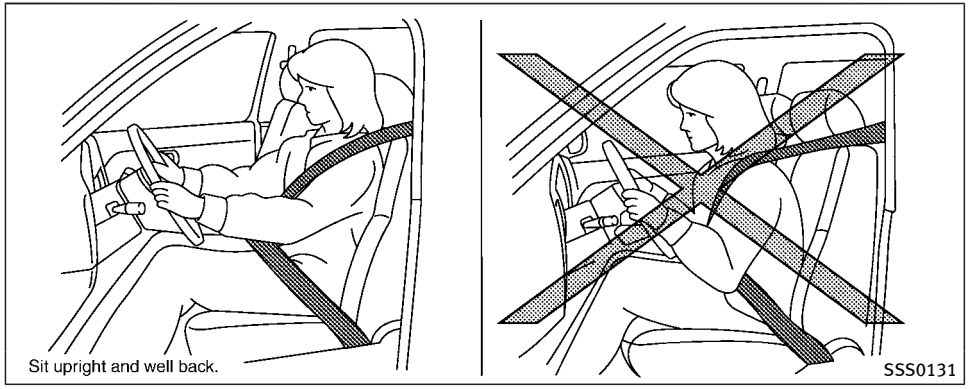
Front seat-mounted side-impact supplemental air bag system: This system can help cushion the impact force to the chest and pelvis area of the driver and front passenger in certain side impact collisions. The supplemental side air bag is designed to inflate on the side where the vehicle is impacted.

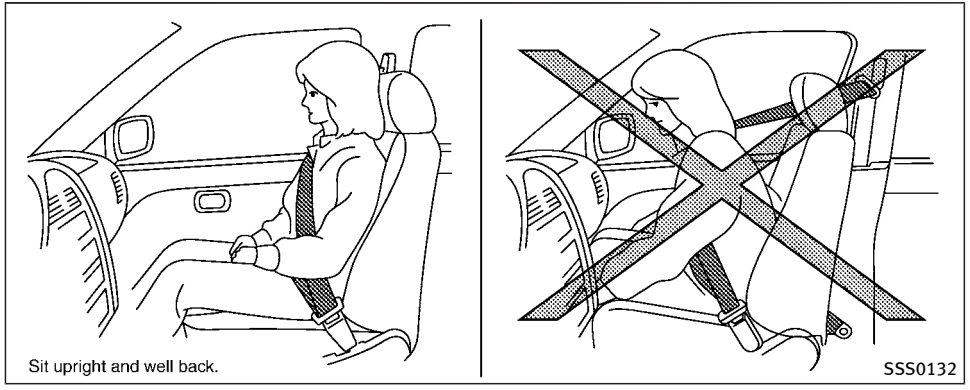
Roof-mounted curtain side-impact and rollover supplemental air bag system: This system can help cushion the impact force to the head of occupants in front and rear (2nd and 3rd) outboard seating positions in certain side impact or rollover collisions. In a side impact, the curtain air bags are designed to inflate on the side where the vehicle is impacted. In a rollover, the curtain air bags on both sides are designed to inflate. Under both side-impact and rollover situations, the curtain air bags will remain inflated for a short period of time.

These supplemental restraint systems are designed to **supplement** the crash protection provided by the driver and passenger seat belts and are **not a substitute** for them. Seat belts should always be correctly worn and the occupant seated a suitable distance away from the steering wheel, instrument panel and door finishers. (See “Seat belts” (P.1-19) for instructions and precautions on seat belt usage.)

The supplemental air bags operate only when the ignition switch is in the ON position.

After pushing the ignition switch to the ON position, the supplemental air bag warning light illuminates. The supplemental air bag warning light will turn off after about 7 seconds if the systems are operational.



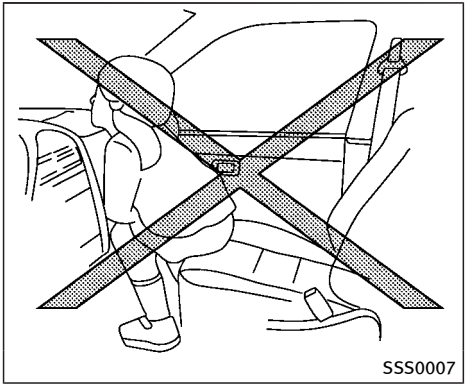


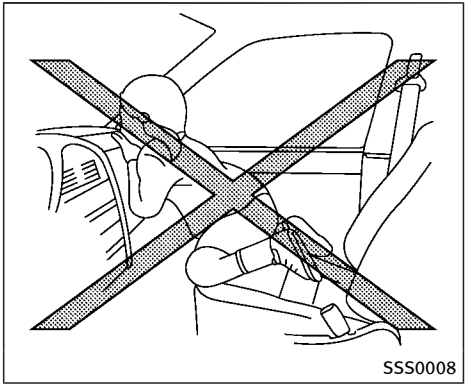
⚠ WARNING

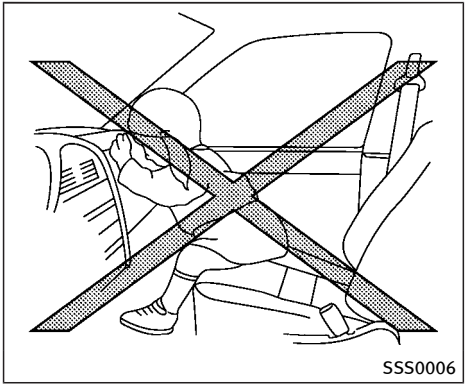
- **The supplemental front air bags ordinarily will not inflate in the event of a side impact, rear impact, rollover, or lower severity frontal collision. Always wear your seat belts to help reduce the risk or severity of injury in various kinds of accidents.**
- **The front passenger air bag will not inflate if the passenger air bag status light is lit or if the front passenger seat is unoccupied. See “Front passenger air bag and status light” (P.1-62).**
- **The seat belts and the front air bags are most effective when you are sitting well back and upright in the seat. The front air bags inflate with great force. Even with the INFINITI Advanced Air Bag System, if you are unrestrained, leaning forward, sitting sideways or out of position in any way, you are at greater risk of injury or death in a crash. You may also receive serious or fatal injuries from the front air bag if you are up against it when it inflates. Always sit back against the seatback and as far-away as practical from the steering wheel or instrument**

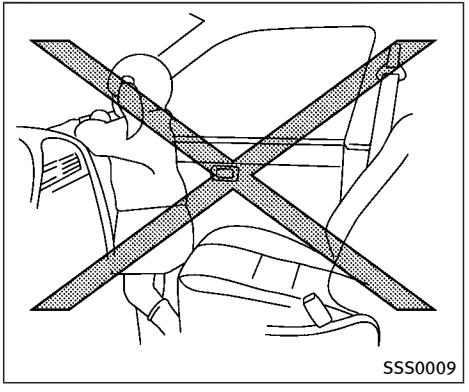
panel. Always use the seat belts.

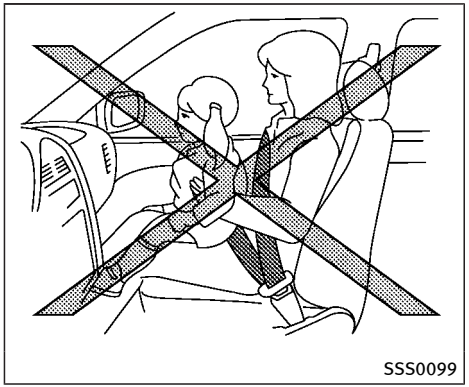
- The driver and front passenger seat belt buckles are equipped with sensors that detect if the seat belts are fastened. The Advanced Air Bag System monitors the severity of a collision and seat belt usage then inflates the air bags. Failure to properly wear seat belts can increase the risk or severity of injury in an accident.
- The front passenger seat is equipped with occupant classification sensors (weight sensors) that turn the front passenger air bag OFF under some conditions. This sensor is only used in this seat. Failure to be properly seated and wearing the seat belt can increase the risk or severity of injury in an accident. See “Front passenger air bag and status light” (P.1-62).
- Keep hands on the outside of the steering wheel. Placing them inside the steering wheel rim could increase the risk of injury if the front air bag inflates.


SSS0007

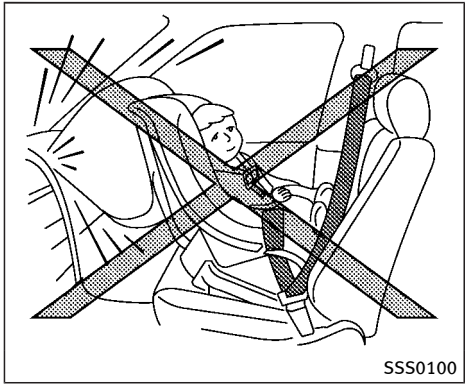

SSS0008


SSS0006


SSS0009



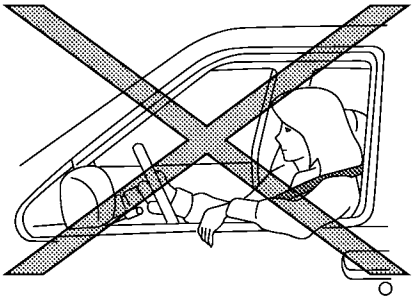
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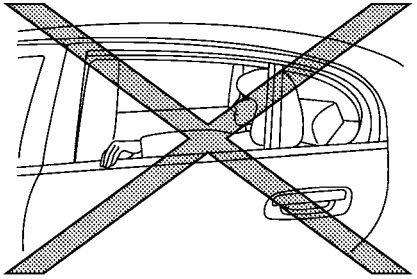
WARNING

- **Never let children ride unrestrained or extend their hands or face out of the window. Do not attempt to hold them in your lap or arms. Some examples of dangerous riding positions are shown in the illustrations.**
- **Children may be severely injured or killed when the front air bags, side air bags or curtain air bags inflate if they are not properly restrained. Pre-teens and children should be properly restrained in the rear seat, if possible.**
- **Even with the INFINITI Advanced Air Bag System, never install a rear-facing child restraint in the front seat. An inflating front air bag could seriously injure or kill your child. See “Child restraints” (P.1-32) for details.**



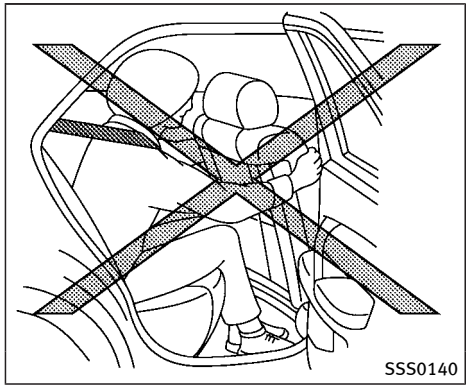
Do not lean against the doors or windows.

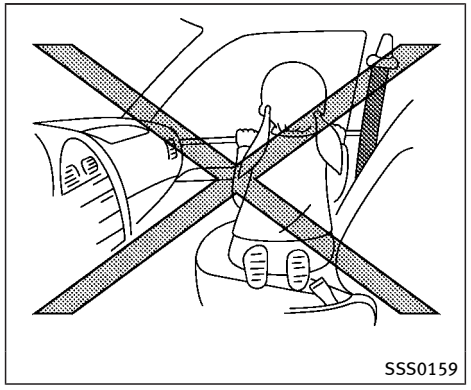
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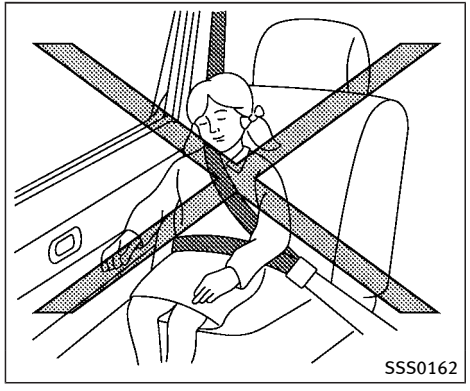


Do not lean against the doors or windows.

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SSS0159

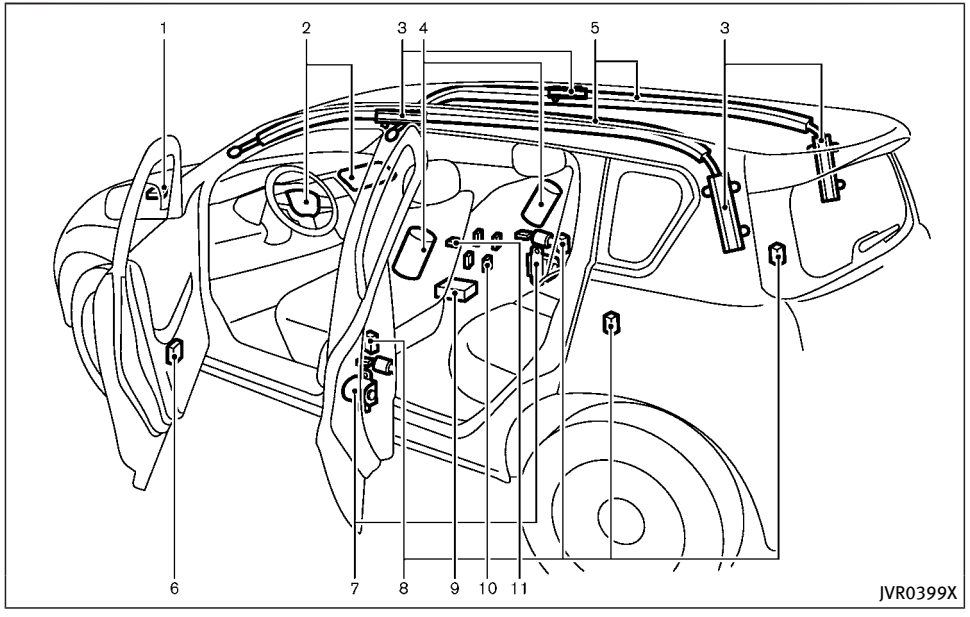

SSS0162

WARNING

Front seat-mounted side-impact supplemental air bags and roof-mounted curtain side-impact and rollover supplemental air bags:

- **The side-impact supplemental air bags ordinarily will not inflate in the event of a front impact, rear impact, rollover, or lower severity side collision. Always wear your seat belts to help reduce the risk or severity of injury in various kinds of accidents.**
- **The curtain side-impact and rollover supplemental air bags ordinarily will not inflate in the event of a front impact, rear impact, or lower severity side collision. Always wear your seat belts to help reduce the risk or severity of injury in various kinds of accidents.**
- **The seat belts, the side air bags and curtain air bags are most effective when you are sitting well back and upright in the seat. The side air bags and curtain air bags inflate with great force. Do not allow anyone to place their hand, leg or face near the side air bags on the side of the seatback of the front seat or near the side roof rails. Do not allow anyone sitting in the front seats or rear outboard seats to extend their hand out of the window or lean against the door. Some examples of dangerous riding positions are shown in the previous illustrations.**
- **When sitting in the rear seat, do not hold onto the seatback of the front seat. If the side air bag inflates, you may be seriously injured. Be especially careful with children, who should always be properly restrained. Some examples of dangerous riding positions are shown in the illustrations.**

- **Do not use seat covers on the front seatbacks. They may interfere with side air bags inflation.**



1. Crash zone sensor
2. Supplemental front-impact air bag modules (INFINITI Advanced Air Bags)
3. Roof-mounted curtain side-impact and rollover supplemental air bag inflators
4. Front seat-mounted side-impact supplemental air bag modules
5. Roof-mounted curtain side-impact and rollover supplemental air bags
6. Door satellite sensors
7. Seat belt pretensioners
8. Satellite sensors
9. Diagnosis sensor unit
10. Occupant classification sensors (weight sensors)
11. Occupant classification system control unit

INFINITI ADVANCED AIR BAG SYSTEM (front seats)

WARNING

To ensure proper operation of the passenger's advanced air bag system, please observe the following items.

- **Do not allow a passenger in the rear seat to push or pull on the seatback pocket.**
- **Do not place heavy loads heavier than 9 lbs. (4 kg) on the seatback, head restraint or in the seatback pocket.**
- **Do not store cargo behind the seat that can press into the seatback.**
- **Do not position the front passenger seat so it contacts the rear seat. If the front seat does contact the rear seat, the air bag system may determine a sensor malfunction has occurred and the front passenger air bag status light may**

illuminate and the supplemental air bag warning light may flash.

- **If a forward facing child restraint is installed in the front passenger seat, do not position the front passenger seat so the child restraint contacts the instrument panel. If the child restraint does contact the instrument panel, the system may determine the seat is occupied and the passenger air bag may deploy in a collision. Also the front passenger air bag status light may not illuminate. See "Child restraints" (P.1-32) for information about installing and using child restraints.**
- **Confirm the operating condition with the front passenger air bag status light.**
- **If you notice that the front passenger air bag status light is not operating in accordance with the above description, it is recommended you visit an INFINITI retailer to check the passenger seat advanced air bag system.**
- **Until you have confirmed with your retailer that your passenger seat advanced air bag is working properly, position the occupants in the rear seating positions.**

This vehicle is equipped with the INFINITI Advanced Air Bag System for the driver and front passenger seats. This system is designed to meet certification requirements under U.S. regulations. It is also permitted in Canada. **All of the information, cautions and warnings in this manual apply and must be followed.**

The driver supplemental front-impact air bag is located in the center of the steering wheel. The passenger supplemental front-impact air bag is mounted in the instrument panel above the glove box. The front air bags are designed to inflate in higher severity frontal collisions, although they may inflate if the forces in another type of collision are similar to those of a higher severity frontal impact. They may not inflate in certain frontal collisions. Vehicle damage (or lack of it) is not always an indication of proper front air bag operation.

The INFINITI Advanced Air Bag System monitors information from the Air bag Control Unit (ACU), seat belt buckle sensors and the occupant classification sensors (weight sensors). Inflator operation is based on the severity of a collision and seat belt usage for the driver. For the front passenger, the occupant classification sensors are also monitored. Based on information from the sensors, only one front air bag may inflate in a crash, depending on the crash severity and whether the front occupants are belted or unbelted. Additionally, the front passenger air bag may be automatically turned OFF under some conditions, depending on the information provided by the occupant classification sensors. If the front passenger air bag is OFF, the front passenger air bag status light will be illuminated (if the seat is unoccupied, the light will not be illuminated, but the air bag will be off). (See "Front passenger air bag and status light" (P.1-62) for further details.) One front air bag inflating does not indicate improper performance of the system.

If you have any questions about your air bag system, it is recommended you visit an INFINITI retailer. If you are considering modification of your vehicle due to a disability, you may also contact INFINITI. Contact information is contained in the front of this Owner's Manual.

When a front air bag inflates, a fairly loud noise may be heard, followed by release of smoke. This smoke is not harmful and does not indicate a fire. Care should be taken

not to inhale it, as it may cause irritation and choking. Those with a history of a breathing condition should get fresh air promptly.

Front air bags, along with the use of seat belts, help to cushion the impact force on the head and chest of the front occupants. They can help save lives and reduce serious injuries. However, an inflating front air bag may cause facial abrasions or other injuries. Front air bags do not provide restraint to the lower body.

Even with INFINITI advanced air bags, seat belts should be correctly worn and the driver and passenger seated upright as far as practical away from the steering wheel or instrument panel. The front air bags inflate quickly in order to help protect the front occupants. Because of this, the force of the front air bag inflating can increase the risk of injury if the occupant is too close to, or is against, the air bag module during inflation.

The front air bags deflate quickly after a collision.

The front air bags operate only when the ignition switch is in the ON position.

After pushing the ignition switch to the ON position, the supplemental air bag warning light illuminates. The supplemental air bag warning light will turn off after about 7 seconds if the system is operational.



Front passenger air bag status light

Front passenger air bag and status light

⚠ WARNING

The front passenger air bag is designed to automatically turn OFF under some conditions. Read this section carefully to learn how it operates. Proper use of the seat, seat belt and child restraints is necessary for most effective protection. Failure to follow all instructions in this manual concerning the use of seats, seat belts and child restraints can increase the risk or severity

of injury in an accident.

Status light:

The front passenger seat is equipped with the occupant classification sensors (weight sensors) that turn the front passenger air bag on or off depending on the weight applied to the front passenger seat. The status of the front passenger air bag (ON or OFF) is indicated by the front passenger air bag status light which is located on the instrument panel. After the ignition switch is placed in the "ON" position, the front passenger air bag status light on the instrument panel illuminates for about 7 seconds and then turns off or illuminates depending on the front passenger seat occupied status.

The light operates as follows:

- Unoccupied passenger seat: The light is OFF and the front passenger air bag is OFF and will not inflate in a crash.
- Passenger seat occupied by a small adult, child or child restraint as outlined in this section: The light illuminates to indicate that the front passenger air bag is OFF and will not inflate in a crash.
- Occupied passenger seat and the passenger meets the conditions outlined in this section: The light is OFF to indicate that the front passenger air bag is operational.

In addition to the above, certain objects placed on the front passenger seat may also cause the light to operate as described above depending on their weight.

For additional information related to the normal operation and troubleshooting of this occupant classification sensor system, please refer to “Normal operation” (P.1-64) and “Troubleshooting” (P.1-65) in this section.

Front passenger air bag:

The front passenger air bag is designed to automatically turn OFF when the vehicle is operated under some conditions as described below as permitted by U.S. regulations. If the front passenger air bag is OFF, it will not inflate in a crash. The driver air bag and other air bags in your vehicle are not part of this system.

The purpose of the regulation is to help reduce the risk of injury or death from an inflating air bag to certain front passenger seat occupants, such as children, by requiring the air bag to be automatically turned OFF.

The occupant classification sensors (weight sensors) are on the seat cushion frame under the front passenger seat and are designed to detect an occupant and objects on the seat. For example, if a child is in the front passenger seat, the Advanced Air Bag System is designed to turn the passenger air bag OFF in accordance with the regulations. Also, if a child restraint of the type specified in the regulations is on the seat, the occupant classification sensors can detect it and cause the air bag to turn OFF.

Front passenger seat adult occupants who are properly seated and using the seat belt as outlined in this manual should not cause the passenger air bag to be automatically turned OFF. For small adults it may be turned OFF, however, if the occupant does not sit in the seat properly (for example, by not sitting upright, by sitting on an edge of the seat, or by otherwise being out of position), this could cause the sensor to turn the air bag OFF. Always be sure to be seated and wearing the seat belt properly for the most effective

protection by the seat belt and supplemental air bag.

INFINITI recommends that pre-teens and children be properly restrained in a rear seat. INFINITI also recommends that appropriate child restraints and booster seats be properly installed in a rear seat. If this is not possible, the occupant classification sensors are designed to operate as described above to turn the front passenger air bag OFF for specified child restraints. Failing to properly secure child restrains and to use the ALR mode may allow the restraint to tip or move in an accident or sudden stop. This can also result in the passenger air bag inflating in a crash instead of being OFF. (See "Child restraints" (P.1-32) for proper use and installation.)

If the front passenger seat is not occupied, the passenger air bag is designed not to inflate in a crash. However, heavy objects placed on the seat could result in air bag inflation, because of the object being detected by the occupant classification sensors. Other conditions could also result in air bag inflation, such as if a child is standing on the seat, or if two children are on the seat, contrary to the instructions in this manual. Always be sure that you and all vehicle occupants are seated and restrained properly.

Using the front passenger air bag status light, you can monitor when the front passenger air bag is automatically turned OFF with the seat occupied. The light will not illuminate when the front passenger seat is unoccupied.

If an adult occupant is in the seat but the front passenger air bag status light is illuminated (indicating that the air bag is OFF), it could be that the person is a small adult, or is not sitting on the seat properly.

If a child restraint must be used in the front seat, the front passenger air bag status light may or may not be illuminated, depending on the size of the child and the type of child restraint being used. If the front passenger air bag status light is not illuminated (indicating that the air bag might inflate in a crash), it could be that the child restraint or seat belt is not being used properly. Make sure that the child restraint is installed properly, the seat belt is used properly and the occupant is positioned properly. If the front passenger air bag status light is still not illuminated, reposition the occupant or child restraint in a rear seat.

If the front passenger air bag status light will not illuminate even though you believe that the child restraint, the seat belts and the occupant are properly positioned, the system may be sensing an unoccupied seat (in which case the air bag is OFF). Your INFINITI retailer can check that the system is OFF by using a special tool. However, until you have confirmed with your retailer that your air bag is working properly, reposition the occupant or child restraint in a rear seat.

The INFINITI Advanced Air Bag System and front passenger air bag status light will take a few seconds to register a change in the passenger seat status. However, if the seat becomes unoccupied, the air bag status light will remain off.

If a malfunction occurs in the front passenger air bag system, the supplemental air bag warning light , located in the meter and gauges area will blink. Have the system checked. It is recommended you visit an INFINITI retailer for this service.

Normal operation:

In order for the occupant classification sensor system to classify the front passen-

ger based on weight, please follow the precautions and steps outlined below:

Precautions:

- Make sure that there are no objects weighing over 9.1 lbs (4 kg) hanging on the seat or placed in the seatback pocket.
- Make sure that a child restraint or other object is not pressing against the rear of the seatback.
- Make sure that a rear passenger is not pushing or pulling on the back of the front passenger seat.
- Make sure that the front passenger seat or seatback is not forced back against an object on the seat or floor behind it.
- Make sure that there is no object placed under the front passenger seat.

Steps:

1. Adjust the seat as outlined. (See "Seats" (P.1-3).) Sit upright, leaning against the seatback, and centered on the seat cushion with your feet comfortably extended to the floor.
2. Make sure there are no objects on your lap.
3. Fasten the seat belt as outlined. (See "Seat belts" (P.1-19).)
4. Remain in this position for 30 seconds allowing the system to classify the front passenger before the vehicle is put into motion.
5. Ensure proper classification by checking the front passenger air bag status light.

NOTE:

This vehicle's occupant classification sensor system locks the classification during driving so it is important that you confirm that the front passenger is properly classified prior to driving. Also, the occupant classification sensor system may recalculate the weight of the occupant when the vehicle comes to a stop (i.e. stop light, stop sign, etc.), so the front passenger seat occupant should continue to remain seated as outlined above.

Troubleshooting:

If you think the front passenger air bag status light is incorrect:

1. If the light is ON with no front passenger and no objects on the front passenger seat:

This may be due to the following conditions that may be interfering with the weight sensors:

- An object weighing over 9.1 lbs (4 kg) hanging on the seat or placed in the seatback pocket.
- A child restraint or other object pressing against the rear of the seatback.
- A rear passenger pushing or pulling on the back of the front passenger seat.
- Forcing the front seat or seatback against an object on the seat or floor behind it.
- An object placed under the front passenger seat.
- An object placed between the seat cushion and center console or between the seat cushion and the door.

If the vehicle is moving, please come to a stop when it is safe to do so. Check and correct any of the above conditions. Restart the vehicle and wait 1 minute.

NOTE:

A system check will be performed during which the front passenger air bag status light will remain lit for about 7 seconds initially.

If the light is still ON after this, it is recommended that the vehicle be checked by an INFINITI retailer as soon as possible.

2. If the light is ON with an adult occupying the front passenger seat:

- Occupant is a small adult — the air bag status light is functioning as intended. The front passenger air bag is suppressed.

However, if the occupant is not a small adult, then this may be due to the following conditions that may be interfering with the weight sensors:

- Occupant is not sitting upright, leaning against the seatback, and centered on the seat cushion with his/her feet comfortably extended to the floor.
- A child restraint or other object pressing against the rear of the seatback.
- A rear passenger pushing or pulling on the back of the front passenger seat.
- Forcing the front seat or seatback against an object on the seat or floor behind it.
- An object placed under the front passenger seat.
- An object placed between the seat cushion and center console or between the seat cushion and the door.

If the vehicle is moving, please come to a stop when it is safe to do so. Check and correct any of the above conditions. Restart the vehicle and wait 1 minute.

NOTE:

A system check will be performed during which the front passenger air bag status light will remain lit for about 7 seconds initially.

If the light is still ON after this, the person should be advised not to ride in the front passenger seat and it is recommended that the vehicle be checked by an INFINITI retailer as soon as possible.

3. If the light is OFF with a small adult, child or child restraint occupying the front passenger seat.

 This may be due to the following conditions that may be interfering with the weight sensors:

- Small adult or child is not sitting upright, leaning against the seatback, and centered on the seat cushion with his/her feet comfortably extended to the floor.
- The child restraint is not properly installed, as outlined. (See “Child restraints” (P.1-32).)
- An object weighing over 9.1 lbs (4 kg) hanging on the seat or placed in the seatback pocket.
- A child restraint or other object pressing against the rear of the seatback.
- A rear passenger pushing or pulling on the back of the front passenger seat.
- Forcing the front seat or seatback against an object on the seat or floor behind it.
- An object placed under the front passenger seat.
- An object placed between the seat cushion and center console.

If the vehicle is moving, please come to a stop when it is safe to do so. Check and correct any of the above conditions. Restart the vehicle and wait 1 minute.

NOTE:

A system check will be performed during which the front passenger air bag status light will remain lit for about 7 seconds initially.

If the light is still OFF after this, the small adult, child or child restraint should be repositioned in the rear seat and it is recommended that the vehicle be checked by an INFINITI retailer as soon as possible.

Other supplemental front-impact air bag precautions

WARNING

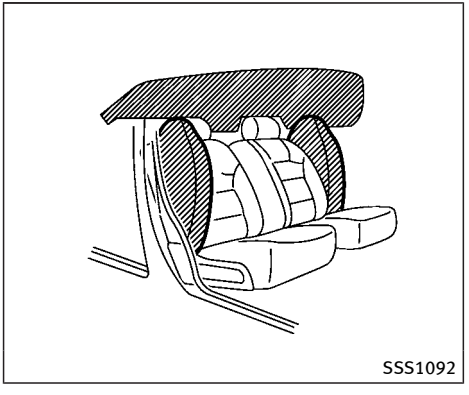
- **Do not place any objects on the steering wheel pad or on the instrument panel. Also, do not place any objects between any occupant and the steering wheel or instrument panel. Such objects may become dangerous projectiles and cause injury if the front air bags inflate.**
- **Do not place objects with sharp edges on the seat. Also, do not place heavy objects on the seat that will leave permanent impressions in the seat. Such objects can damage the seat or occupant classification sensors (weight sensors). This can affect the operation of the air bag system and result in serious personal injury.**
- **Do not use water or acidic cleaners (hot steam cleaners) on the seat. This can damage the seat or occupant classification sensors. This can also affect the operation of the air bag system and result in serious personal injury.**
- **Immediately after inflation, several front air bag system components will be hot. Do not touch them; you may severely burn yourself.**
- **No unauthorized changes should be made to any components or wiring of the supplemental air bag system. This is to prevent accidental inflation of the supplemental air bag or damage to the supplemental air bag system.**
- **Do not make unauthorized changes to your vehicle's electrical system, suspension system or front end structure. This could affect proper operation of the front air bag system.**
- **Tampering with the air bag system may result in serious personal injury. Tampering includes changes to the steering wheel and the instrument panel assembly by placing material over the steering wheel pad and above the instrument panel or by installing additional trim material around the air bag system.**
- **Removing or modifying the front passenger seat may affect the function of the air bag system and result in serious personal injury.**
- **Modifying or tampering with the front passenger seat may result in serious personal injury. For example, do not change the front seats by placing material on the seat cushion or by installing additional trim material, such as seat covers, on the seat that is not specifically designed to assure proper air bag operation. Additionally, do not stow any objects under the front passenger seat or the seat cushion and seatback. Such objects may interfere with the proper operation of the occupant classification sensors.**
- **No unauthorized changes should be made to any components or wiring of the seat belt system. This may affect the front air bag system. Tampering with the seat belt system may result in serious personal injury.**
- **It is recommended you visit an INFINITI retailer for work on and around the front air bag. It is also recommended you visit an INFINITI retailer for installation of electrical equipment. The Supplemental Restraint System (SRS) wiring harnesses* should not be modified or disconnected. Unauthorized electrical test equipment and probing devices**

should not be used on the air bag system.

- **A cracked windshield should be replaced immediately by a qualified repair facility. A cracked windshield could affect the function of the supplemental air bag system.**

* **The SRS wiring harness connectors are yellow and orange for easy identification.**

When selling your vehicle, we request that you inform the buyer about the front air bag system and guide the buyer to the appropriate sections in this Owner's Manual.


SSS1092

FRONT SEAT-MOUNTED SIDE-IMPACT SUPPLEMENTAL AIR BAG AND ROOF-MOUNTED CURTAIN SIDE-IMPACT AND ROLLOVER SUPPLEMENTAL AIR BAG SYSTEMS

The side air bags are located in the outside of the seatback of the front seats. The curtain air bags are located in the side roof rails. **All of the information, cautions and warnings in this manual apply and must be followed.** The side air bags and curtain air bags are designed to inflate in higher severity side collisions, although they may inflate if the forces in another type of collision are similar to those of a higher severity side impact. They are designed to inflate on the side where the vehicle is impacted. They may not inflate in certain side collisions on the side where the vehicle is impacted.

Curtain air bags are also designed to inflate in certain types of rollover collisions or near rollovers. As a result, certain vehicle movements (for example, during severe off roading) may cause the curtain air bags to inflate.

Vehicle damage (or lack of it) is not always an indication of proper side air bag and curtain air bag operation.

When side air bags and curtain air bags inflate, a fairly loud noise may be heard, followed by release of smoke. This smoke is not harmful and does not indicate a fire. Care should be taken not to inhale it, as it may cause irritation and choking. Those with a history of a breathing condition should get fresh air promptly.

Side air bags, along with the use of seat belts, help to cushion the impact force on the chest and pelvis of the front occupants. Curtain air bags help to cushion the impact force to the head of occupants in the front and rear (2nd and 3rd) outboard seating

positions. They can help save lives and reduce serious injuries. However, an inflating side air bag or curtain air bag may cause abrasions or other injuries. Side air bags and curtain air bags do not provide restraint to the lower body.

The seat belts should be correctly worn and the driver and passenger seated upright as far as practical away from the side air bag. Rear seat passengers should be seated as far away as practical from the door finishers and side roof rails. The side air bags and curtain air bags inflate quickly in order to help protect the occupants. Because of this, the force of the side air bags and curtain air bags inflating can increase the risk of injury if the occupant is too close to, or is against, these air bag modules during inflation. In a rollover, the curtain air bags on both sides are designed to inflate. Under both side-impact situations, the curtain air bags will remain inflated for a short period of time.

The side air bags and curtain air bags operate only when the ignition switch is in the ON position.

After pushing the ignition switch to the ON position, the supplemental air bag warning light illuminates. The air bag warning light will turn off after about 7 seconds if the systems are operational.

WARNING

- **Do not place any objects near the seatback of the front seats. Also, do not place any objects (an umbrella, bag, etc.) between the front door finisher and the front seat. Such objects may become dangerous projectiles and cause injury if side air bag inflates.**
- **Right after inflation, several side air bags and curtain air bag system components will be hot. Do not touch them; you may severely burn yourself.**
- **No unauthorized changes should be made to any components or wiring of side air bag and curtain air bags. This is to prevent damage to or accidental inflation of the side air bag and curtain air bag systems.**
- **Do not make unauthorized changes to your vehicle's electrical system, suspension system or side panel. This could affect proper operation of the side air bag and curtain air bag systems.**
- **Tampering with the air bag system may result in serious personal injury. For example, do not change the front seats by placing material near the seatback or by installing additional trim material, such as seat covers, around the side air bags.**
- **Removing or modifying the front passenger seat may affect the function of the air bag system and result in serious personal injury.**
- **It is recommended you visit an INFINITI retailer for work on and around the side air bag and curtain air bag. It is also recommended you visit an INFINITI retailer for installation of electrical equipment. The Supplemental Restraint System (SRS) wiring harnesses* should not be modified or disconnected. Unauthorized electrical test equipment and probing devices should not be used on the side-impact air bag system.**

* **The SRS wiring harness connectors are yellow and orange for easy identification.**

When selling your vehicle, we request that you inform the buyer about the side air bag and curtain air bag systems and guide the

buyer to the appropriate sections in this Owner's Manual.

SEAT BELTS WITH PRETENSIONERS (front seats)

⚠ WARNING

- **The pretensioners cannot be reused after activation. They must be replaced together with the retractor and buckle as a unit.**
- **If the vehicle becomes involved in a collision but a pretensioner is not activated, be sure to have the pretensioner system checked and, if necessary, replaced. It is recommended you visit an INFINITI retailer for this service.**
- **No unauthorized changes should be made to any components or wiring of the pretensioner system. This is to prevent damage to or accidental activation of the pretensioners. Tampering with the pretensioner system may result in serious personal injury.**
- **It is recommended you visit an INFINITI retailer for work on and around the pretensioner system. It is also recommended you visit an INFINITI retailer for installation of electrical equipment. Unauthorized electrical test equipment and probing devices should not be used on the pretensioner system.**
- **If you need to dispose of a pretensioner or scrap the vehicle, it is recommended you visit an INFINITI retailer for this service. Correct pretensioner disposal procedures are set forth in the appropriate INFINITI Service Manual. Incorrect disposal procedures could cause personal injury.**

The pretensioner system may activate with the supplemental air bag system in certain types of collisions. Working with the seat belt retractor, it helps tighten the seat belt when the vehicle becomes involved in certain types of collisions, helping to restrain front seat occupants.

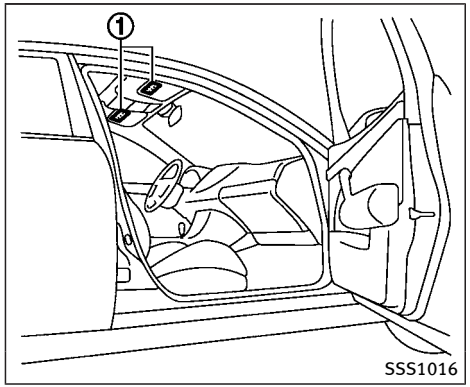
The pretensioner is encased with the seat belt retractor and buckle anchor. These seat belts are used the same way as conventional seat belts.

When a pretensioner activates, smoke is released and a loud noise may be heard. The smoke is not harmful, and it does not indicate a fire. Care should be taken not to inhale it as it may cause irritation and choking. Those with a history of a breathing condition should get fresh air promptly.

After pretensioner activation, load limiters allow the seat belt to release webbing (if necessary) to reduce forces against the chest.

The supplemental air bag warning light is used to indicate malfunctions in the pretensioner system. (See "Supplemental air bag warning light" (P.1-71) for more details.) If the operation of the supplemental air bag warning light indicates there is a malfunction, have the system checked. It is recommended you visit an INFINITI retailer for this service.

When selling your vehicle, we request that you inform the buyer about the pretensioner system and guide the buyer to the appropriate sections in this Owner's Manual.



SUPPLEMENTAL AIR BAG WARNING LABELS

Warning labels about the supplemental front-impact air bag system are placed in the vehicle as shown in the illustration.

SRS air bag

The warning labels ① are located on the surface of the sun visors.



SUPPLEMENTAL AIR BAG WARNING LIGHT

The supplemental air bag warning light, displaying in the instrument panel, monitors the circuits for the air bag systems, pretensioners and all related wiring.

When the ignition switch is in the ON position, the supplemental air bag warning light illuminates for about 7 seconds and then turns off. This means the system is operational.

If any of the following conditions occur, the air bag and/or pretensioner systems need servicing:

- The supplemental air bag warning light remains on after approximately 7 seconds.
- The supplemental air bag warning light flashes intermittently.
- The supplemental air bag warning light does not come on at all.

Under these conditions, the air bag and/or pretensioner systems may not operate properly. They must be checked and repaired. It is recommended you visit an INFINITI retailer for this service.

WARNING

If the supplemental air bag warning light is on, it could mean that the front air bag, side air bag, curtain air bag and/or pretensioner systems will not operate in an accident. To help avoid injury to yourself or others, have your vehicle checked as soon as possible. It is recommended you visit an INFINITI retailer for this service.

REPAIR AND REPLACEMENT PROCEDURE

The front air bags, side air bags, curtain air bags and pretensioners are designed to activate on a one-time-only basis. As a reminder, unless it is damaged, the supplemental air bag warning light will remain illuminated after inflation has occurred. These systems should be repaired and/or replaced as soon as possible. It is recommended you visit an INFINITI retailer for this service.

When maintenance work is required on the vehicle, the front air bags, side air bags, curtain air bags, pretensioners and related parts should be pointed out to the person conducting the maintenance. The ignition switch should always be in the LOCK position when working under the hood or inside the vehicle.

WARNING

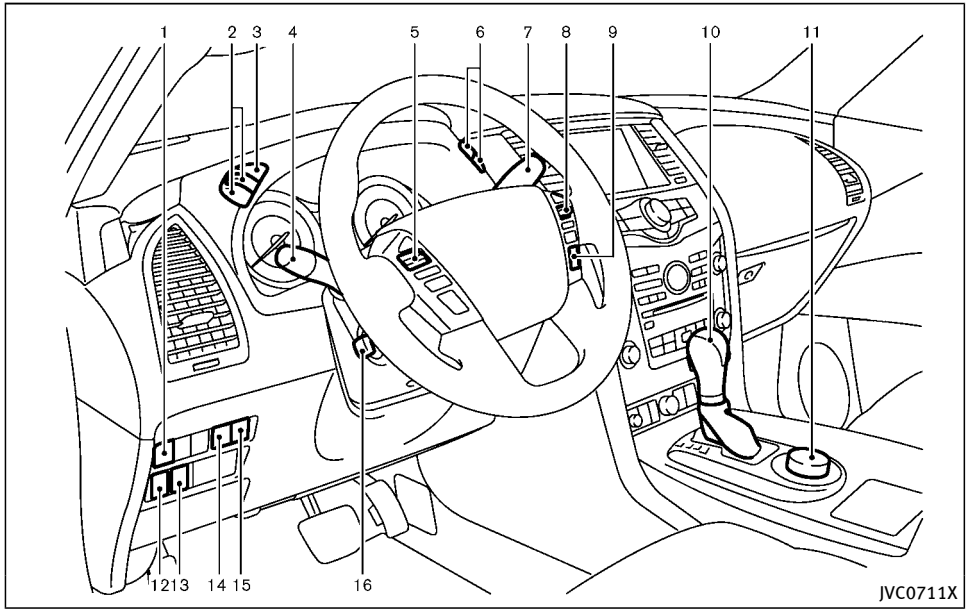
- **Once a front air bag, side air bag or curtain air bag has inflated, the air bag module will not function again and must be replaced. Additionally, the activated pretensioner must also be replaced. The air bag module and pretensioner should be replaced. It is recommended you visit an INFINITI retailer for this service. However, the air bag module and pretensioner system cannot be repaired.**
- **The front air bag, side air bag, curtain air bag and the pretensioner should be inspected if there is any damage to the front end or side portion of the vehicle. It is recommended you visit an INFINITI retailer for this service.**
- **If you need to dispose of a supplemental air bag or pretensioner or scrap the vehicle, it is recommended you visit an INFINITI retailer. Correct supplemental air bag and pretensioner system disposal procedures are set forth in the appropriate INFINITI Service Manual. Incorrect disposal procedures could cause personal injury.**
- **If there is an impact to your vehicle from any direction, your Occupant Classification Sensor (OCS) should be checked to verify it is still functioning correctly. It is recommended that you visit an INFINITI retailer for this service. The OCS should be checked even if no air bags deploy as a result of the impact. Failure to verify proper OCS function may result in an improper air bag deployment resulting in injury or death.**

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COCKPIT

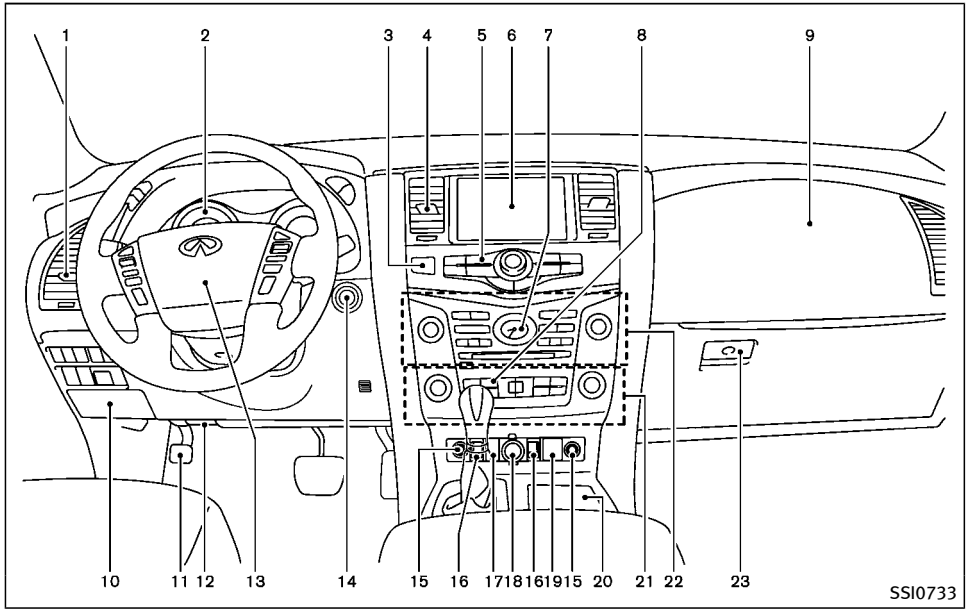


1. Power liftgate switch*
2. Instrument brightness control switch
3. TRIP/RESET switch for twin trip odometer
4. Headlight, fog light and turn signal switch
 — Headlight
 — Turn signal
 — Fog light
5. Steering-wheel-mounted controls (left side)
 — Audio control steering switch
 — Hands-Free Phone System switch
6. Trip computer switch
7. Wiper and washer switch
8. Steering-wheel-mounted controls (right side)
 — Cruise control system*
 — Intelligent Cruise Control (ICC) system*
9. Dynamic driver assistance switch*
 — Lane Departure Prevention (LDP) system*
 — Distance Control Assist (DCA) system*
 — Blind Spot Intervention® (BSI) system*
10. Shift lever
11. Four-Wheel Drive (4WD) shift switch*/ SNOW mode switch/TOW MODE switch/Vehicle Dynamic Control (VDC) OFF switch
12. Headlight aiming control*
13. Power liftgate main switch

14. Warning systems switch*
 — Lane Departure Warning (LDW)*
 — Blind Spot Warning (BSW)*
15. BCI (Back-up Collision Intervention) switch* or Power liftgate switch*
16. Electric tilting/telescopic steering wheel switch

*: if so equipped

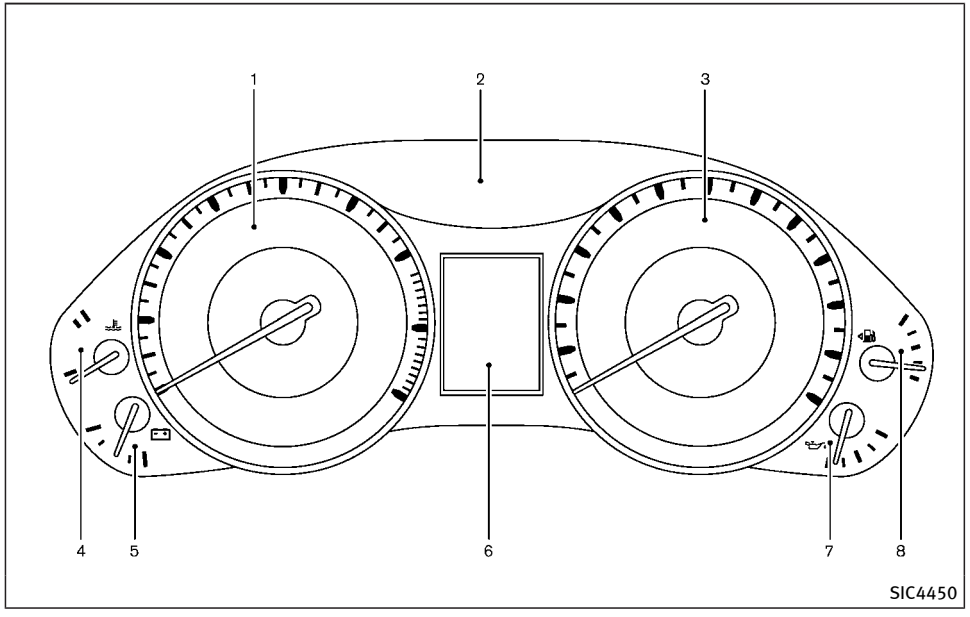
INSTRUMENT PANEL



1. Side ventilator
2. Meters and gauges
3. Hazard indicator flasher switch
4. Center ventilator
5. Center multi-function control panel
 — Vehicle information and setting buttons
6. Center display
 — Around View® Monitor
 — Navigation system**
 — DVD player operation
7. Clock
8. Defroster switch
9. Front passenger supplemental air bag
10. Fuse box
11. Parking brake
12. Hood release handle
13. Steering wheel
 — Horn
 — Driver supplemental air bag
 — Power steering system
14. Push-button ignition switch
15. Climate controlled seat switch*/ Heated seat switch*
16. Remote tip-up 2nd row seat switch*
17. Heated steering wheel switch
18. Power outlet
19. Front passenger air bag status light
20. Cup holder
21. Automatic air conditioning system
22. Audio system
23. Glove box

*: if so equipped

**: Refer to the separate Navigation System Owner's Manual.

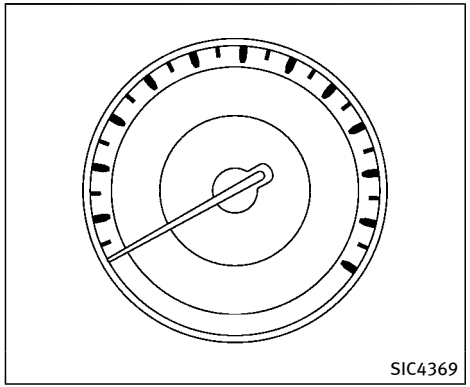


1. Tachometer*
2. Warning/Indicator lights
3. Speedometer*
4. Engine coolant temperature gauge*
5. Voltmeter*
6. Vehicle information display/Odometer/twin trip odometer
7. Engine oil pressure gauge*
8. Fuel gauge*

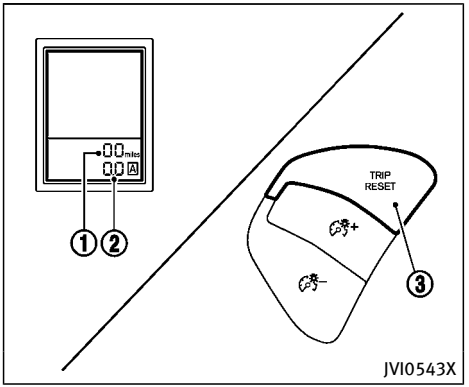
***: The needle indicators may move slightly after the ignition switch is pushed to the OFF position. This is not a malfunction.**

CAUTION

- **For cleaning, use a soft cloth, dampened with water. Never use a rough cloth, alcohol, benzine, thinner or any kind of solvent or paper towel with a chemical cleaning agent. They will scratch or cause discoloration to the lens.**
- **Do not spray any liquid such as water on the meter lens. Spraying liquid may cause the system to malfunction.**



Speedometer



Odometer/twin trip odometer

SPEEDOMETER AND ODOMETER

Speedometer

The speedometer indicates vehicle speed in miles per hour (MPH) and kilometers per hour (km/h).

Odometer/twin trip odometer

The odometer ① and twin trip odometer ② are displayed on the vehicle information display when the ignition switch is in the ON position.

The odometer records the total distance the vehicle has been driven.

The twin trip odometer records the distance of individual trips.

Changing the display:

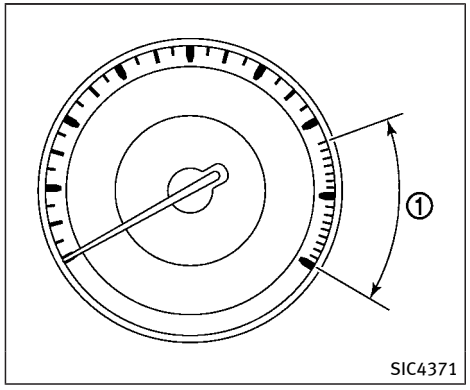
Pushing the TRIP RESET switch ③ at the bottom left of the combination meter panel changes the display as follows:

TRIP A → TRIP B → TRIP A

Resetting the trip odometer:

Pushing the TRIP RESET switch ③ for more than 1 second resets the trip odometer to zero.

Average fuel economy and distance to empty information is also available. (See “Vehicle information display” (P.2-22).)

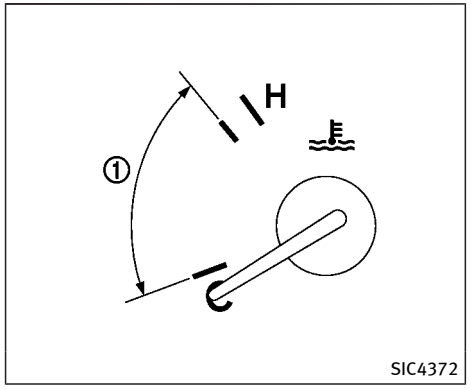


TACHOMETER

The tachometer indicates engine speed in revolutions per minute (RPM). **Do not rev the engine into the red zone ①.**

CAUTION

When engine speed approaches the red zone, shift to a higher gear or reduce engine speed. Operating the engine in the red zone may cause serious engine damage.



ENGINE COOLANT TEMPERATURE GAUGE

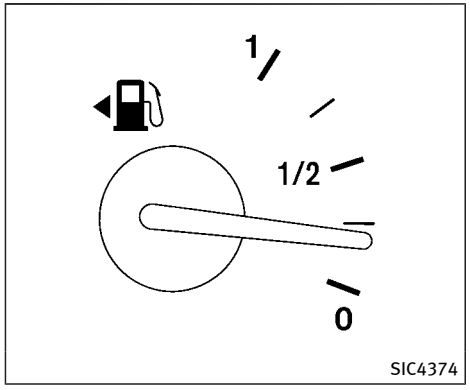
The gauge indicates the engine coolant temperature.

The engine coolant temperature is within the normal range when the gauge needle points within the zone ① shown in the illustration.

The engine coolant temperature varies with the outside air temperature and driving conditions.

CAUTION

If the gauge indicates engine coolant temperature near the hot (H) end of the normal range, reduce vehicle speed to decrease temperature. If gauge is over the normal range, stop the vehicle as soon as safely possible. If the engine is overheated, continued operation of the vehicle may seriously damage the engine. See "If your vehicle overheats" (P.6-14) for immediate action required.



FUEL GAUGE

The gauge indicates the **approximate** fuel level in the tank.

The gauge may move slightly during braking, turning, acceleration, or going up or down hills.

The gauge needle returns to 0 (Empty) after the ignition switch is pushed to the OFF position.

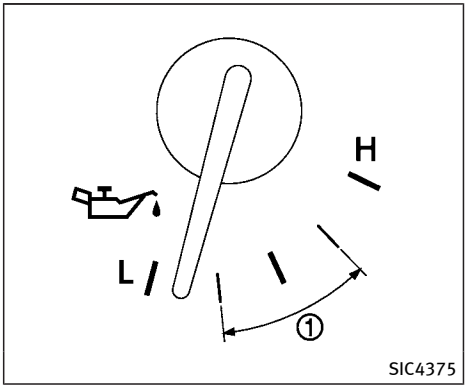
Refill the fuel tank before the gauge registers “0” (Empty).

The low fuel warning appears on the vehicle information display when the fuel tank is getting low. Refuel as soon as it is convenient, preferably before the gauge reaches “0”. There will be a small reserve of fuel in the tank when the fuel gauge needle reaches “0”.

The indicates that the fuel-filler door is located on the driver’s side of the vehicle.

CAUTION

- **If the vehicle runs out of fuel, the malfunction indicator light (MIL) may come on. Refuel as soon as possible. After a few driving trips, the light should turn off. If the light remains on after a few driving trips, have the vehicle inspected. It is recommended you visit an INFINITI retailer for this service.**
- **For additional information, see “Malfunction Indicator Light (MIL)” (P.2-20).**



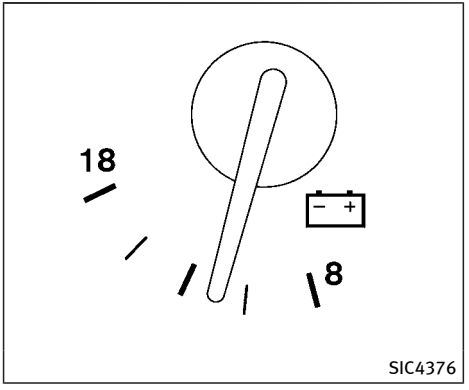
ENGINE OIL PRESSURE GAUGE

The gauge indicates the engine lubrication system oil pressure while the engine is running. When the engine speed is high, the engine oil pressure is also high. When it is low, the gauge indicates the low (L) oil pressure.

The engine oil pressure is normal when the gauge needle points within the zone ① shown in the illustration.

CAUTION

- **This gauge is not designed to indicate low engine oil level. Use the dipstick to check the oil level. (See “Engine oil” (P.8-6).)**
- **If the gauge needle does not move with the proper amount of engine oil, have the vehicle checked. It is recommended you visit an INFINITI retailer for this service. Continued vehicle operation in such a condition could cause serious damage to the engine.**



VOLTMETER

When the ignition switch is pushed to the ON position, the volt meter indicates the battery voltage. When the engine is running, it indicates the generator voltage.

While cranking the engine, the volt drop below the normal range. If the needle is not in the normal range (10.5 to 15.5 volt) while the engine is running, it may indicate that the charging system is not functioning properly. Have the system checked. It is recommended you visit an INFINITI retailer for this service.

METER/RING ILLUMINATION AND NEEDLE SWEEP

The ring illumination surrounding meters and gauges illuminates when the driver’s door is closed after getting into the vehicle with the Intelligent Key carried in.

When the engine is started, the indicator needles will sweep in the speedometer and tachometer and the ring illumination will be brightened gradually. This function can be turned off. (See “Trip computer” (P.2-29).)

WARNING LIGHTS, INDICATOR LIGHTS AND AUDIBLE REMINDERS

	Anti-lock Braking System (ABS) warning light		Intelligent Key warning light		Front passenger air bag status light
			Lane Departure Warning (LDW) indicator light (orange; if so equipped)		High beam assist indicator light
	Automatic transmission check warning light		Low tire pressure warning light		High beam indicator light
	Automatic Transmission (AT) oil temperature warning light		Master warning light		Lane Departure Prevention (LDP) ON indicator light (green; if so equipped)
	Automatic Transmission (AT) park warning light		Seat belt warning light		Malfunction Indicator Light (MIL)
	Blind Spot Warning (BSW)/Blind Spot Intervention (BSI) system warning light (orange; if so equipped)		Supplemental air bag warning light		Security indicator light
	Brake warning light		Vehicle Dynamic Control (VDC) warning light		SNOW mode indicator light
	Charge warning light		Adaptive Front lighting System (AFS) indicator light (if so equipped)		TOW mode indicator light
	Distance Control Assist (DCA) system warning light (orange; if so equipped)		Automatic transmission position indicator light		Turn signal/hazard indicator lights
	Engine oil pressure warning light		Blind Spot Intervention (BSI) ON indicator light (green; if so equipped)		Vehicle Dynamic Control (VDC) off indicator light
	Four-Wheel Drive (4WD) warning light (4WD models)		Check suspension indicator light		
	Forward Emergency Braking (FEB) system warning light (if so equipped)		CRUISE indicator light (if so equipped)		
	Intelligent Cruise Control (ICC) system warning light (orange; if so equipped)		Exterior light indicator		

CHECKING LIGHTS

With all doors closed, apply the parking brake, fasten the seat belts and place the ignition switch in the “ON” position without starting the engine. The following lights (if so equipped) will come on:

, BRAKE or , , , 4WD, CRUISE,

The following lights (if so equipped) will come on briefly and then go off:

, ABS or , AT CHECK, , , , KEY, , AFS OFF, , CK SUSP

If any light does not come on or operates in a way other than described, it may indicate a burned-out bulb and/or a system malfunction. Have the system checked. It is recommended you visit an INFINITI retailer for this service.

Some indicators and warnings are also displayed on the vehicle information display between the speedometer and tachometer. (See “Vehicle information display” (P.2-22).)

WARNING LIGHTS

ABS or Anti-lock Braking System (ABS) warning light

When the ignition switch is in the ON position, the Anti-lock Braking System (ABS) warning light illuminates and then turns off. This indicates the ABS is operational.

If the ABS warning light illuminates while the engine is running, or while driving, it may indicate the ABS is not functioning properly. Have the system checked. It is recommended you visit an INFINITI retailer for this service.

If an ABS malfunction occurs, the anti-lock function is turned off. The brake system then operates normally, but without anti-lock assistance. (See “Brake system” (P.5-134).)

AT CHECK Automatic transmission check warning light

When the ignition switch is pushed to the ON position, the light comes on for 2 seconds. If the light comes on at any other time, it may indicate the transmission is not functioning properly. It is recommend you visit an INFINITI retailer to check and repair the transmission.

A/T OIL TEMP Automatic Transmission (AT) oil temperature warning light

This light illuminates when the Automatic Transmission (AT) oil temperature is too high. If the light illuminates while driving, reduce the vehicle speed as soon as safely possible until the light turns off.

CAUTION

Continued vehicle operation when the AT oil temperature warning light is on may damage the AT.

ATP Automatic Transmission (AT) park warning light (4WD models)

This light indicates that the Automatic Transmission (AT) parking function is not engaged. If the transfer control is not secured in any driving position while the AT shift lever is in the “P” (Park) position, the transmission will disengage and the wheels will not lock.

If the AT park warning light illuminates with the shift lever in the P (Park) position, shift the Four-Wheel Drive (4WD) shift switch to the AUTO, 4H or 4L position again with the shift lever in the N (Neutral) position. (See "INFINITI all-mode 4WD®" (P.5-124).)

Blind Spot Warning (BSW)/ Blind Spot Intervention (BSI) system warning light (orange; if so equipped)

When the ignition switch is pushed to the ON position, the indicator light will first illuminate in orange and turn green before turning off. This indicates that the Blind Spot Warning (BSW) and Blind Spot Intervention (BSI) systems are operational.

If the light comes on in orange and remains on, it may indicate that the BSW and BSI systems are not functioning properly. Although the vehicle is still driveable, have the systems checked. It is recommended you visit an INFINITI retailer for this service. See "Blind Spot Warning (BSW)" (P.5-33) and "Blind Spot Intervention® (BSI)" (P.5-43).

BRAKE or Brake warning light

This light functions for both the parking brake and the foot brake systems.

Parking brake indicator:

When the ignition switch is in the ON position, the light comes on when the parking brake is applied.

Low brake fluid warning light:

When the ignition switch is in the ON position, the light warns of a low brake fluid level. If the light comes on while the engine is running with the parking brake not applied, stop the vehicle and perform the following:

1. Check the brake fluid level. If brake fluid is low, add fluid and have the system checked. It is recommended you have this service performed by an INFINITI retailer. (See "Brake fluid" (P.8-9).)
2. If the brake fluid level is correct, have the warning system checked. It is recommended you have this service performed by an INFINITI retailer.

Low hydraulic pressure warning indicator:

If the brake warning light illuminates when the engine is running, or while driving with the parking brake is released, check the brake fluid level. If the brake fluid level is sufficient, it may indicate low hydraulic pressure in the brake booster. Have the brake system checked. It is recommended you have this service performed by an INFINITI retailer.

Anti-lock Braking System (ABS) warning indicator:

When the parking brake is released and the brake fluid level is sufficient, if both the brake warning light and the Anti-lock Braking System (ABS) warning light illuminate, it may indicate the ABS is not functioning properly. Have the brake system checked, and if necessary repaired. It is recommended you visit an INFINITI retailer for this service. (See "Anti-lock Braking System (ABS) warning light" (P.2-12).)

WARNING

- **Your brake system may not be working properly if the warning light is on.**

Driving could be dangerous. If you judge it to be safe, drive carefully to the nearest service station for repairs. Otherwise, have your vehicle towed because driving it could be dangerous.

- **Pressing the brake pedal with the engine stopped and/or low brake fluid level may increase your stopping distance and braking will require greater pedal effort as well as pedal travel.**
- **If the brake fluid level is below the minimum or MIN mark on the brake fluid reservoir, do not drive until the brake system has been checked. It is recommended you visit an INFINITI retailer for this service.**

Charge warning light

If the light comes on while the engine is running, it may indicate the charging system is not functioning properly. Turn the engine off and check the alternator belt. If the belt is loose, broken, missing or if the light remains on, have your vehicle serviced immediately. It is recommended you visit an INFINITI retailer for this service.

CAUTION

Do not continue driving if the alternator belt is loose, broken or missing.

CRUISE Distance Control Assist (DCA) system warning light (orange; if so equipped)

This light comes on if there is a malfunction in the Distance Control Assist (DCA) system.

If the warning light illuminates, park the vehicle in a safe place. Turn the engine off, restart the engine, resume driving and turn on the DCA system again.

If it is not possible to turn on the system or the warning light stays on, it may indicate that the system is malfunctioning. Although the vehicle is still driveable under normal conditions, have the vehicle checked. It is recommended you visit an INFINITI retailer for this service.

See “Distance Control Assist (DCA)” (P.5-91).

Engine oil pressure warning light

This light warns of low engine oil pressure. If the light flickers or comes on during normal driving, pull off the road in a safe area, stop the engine **immediately** and call an INFINITI retailer or other authorized repair shop.

The engine oil pressure warning light is not designed to indicate a low oil level. Use the dipstick to check the oil level. (See “Engine oil” (P.8-6).)

CAUTION

Running the engine with the engine oil pressure warning light on could cause serious damage to the engine almost immediately. Such damage is not covered by warranty. Turn off the engine as soon as it is safe to do so.

4WD Four-Wheel Drive (4WD) warning light (4WD models)

The 4WD warning light comes on when the ignition switch is pushed to ON. It turns off

soon after the engine is started.

If the 4WD system malfunctions, or the diameter of the front and the rear wheels are different, the warning light will either remain illuminated or blink. (See "INFINITI all-mode 4WD®" (P.5-124).)

CAUTION

- **If the warning light comes on while driving there may be a malfunction in the 4WD system. Reduce the vehicle speed and have your vehicle checked as soon as possible. It is recommended you visit an INFINITI retailer for this service.**
- **If the 4WD warning light turns on when driving on dry or hard surfaced roads:**
 - **— in the 4H(I) position, shift the 4WD shift switch to AUTO**
 - **— in the 4L(O) position, stop the vehicle and shift the transmission shift lever to the "N" (Neutral) position and shift the 4WD shift switch to AUTO**
- **If the warning light is still on after the above operations, have your vehicle checked as soon as possible. It is recommended you visit an INFINITI retailer for this service.**



Forward Emergency Braking (FEB) system warning light (if so equipped)

This light comes on when the ignition switch is placed in the ON position. It turns off after the engine is started.

This light illuminates when the Forward Emergency Braking (FEB) with pedestrian detection system is set to OFF on the center display.

If the light illuminates when the FEB with pedestrian detection system is ON, it may indicate that the system is unavailable. See "Forward Emergency Braking (FEB) with pedestrian detection" (P.5-105) for more details.



Intelligent Cruise Control (ICC) system warning light (orange; if so equipped)

This light comes on if there is a malfunction in the Intelligent Cruise Control (ICC) system.

If the warning light comes on, park the vehicle in a safe place. Turn the engine off, restart the engine, resume driving and set the ICC system again.

If it is not possible to set the system or the indicator stays on, it may indicate that the system is malfunctioning. Although the vehicle is still driveable under normal conditions, have the vehicle checked. It is recommended you visit an INFINITI retailer for this service.



Intelligent Key warning light

After the ignition switch is pushed to the ON position, this light comes on for about 2 seconds and then turns off.

This light warns of a malfunction with the Intelligent Key system.

If the light comes on while the engine is stopped, it may be impossible to start the engine. If the light comes on while the engine is running, you can drive the vehicle. However in these cases, it is recommended you visit an INFINITI retailer for repair as soon as possible.

Lane Departure Warning (LDW) indicator light (orange; if so equipped)

When the ignition switch is pushed to the ON position, the light will come on in orange, turn green, and then turn off. This indicates that the Lane Departure Warning (LDW) and Lane Departure Prevention (LDP) systems are operational.

While the LDW and/or LDP system is on, the light will blink in orange and a warning chime will sound if the vehicle is traveling close to either the left or the right of a traveling lane with detectable lane markers.

If the light comes on in orange and remains on, it may indicate that the LDW and LDP systems are not functioning properly. Although the vehicle is still driveable, have the systems checked. It is recommended you visit an INFINITI retailer for this service.

See “Lane Departure Warning (LDW)/Lane Departure Prevention (LDP) ” (P.5-23).

Low tire pressure warning light

Your vehicle is equipped with a Tire Pressure Monitoring System (TPMS) that monitors the tire pressure of all tires except the spare.

The low tire pressure warning light warns of low tire pressure or indicates that the TPMS is not functioning properly.

After the ignition switch is pushed ON, this light illuminates for about 1 second and turns off.

Low tire pressure warning:

If the vehicle is being driven with low tire pressure, the warning light will illuminate. A CHECK TIRE PRESSURE warning also appears in the vehicle information display. If you select the tire pressure information in the display, the LOW PRESSURE information will be displayed. The tire pressure for each tire will also be displayed.

When the low tire pressure warning light illuminates, you should stop and adjust the tire pressure to the recommended COLD tire pressure shown on the Tire and Loading Information label. The low tire pressure warning light does not automatically turn off when the tire pressure is adjusted. After the tire is inflated to the recommended pressure, the vehicle must be driven at speeds above 16 MPH (25 km/h) to activate the TPMS and turn off the low tire pressure warning light. Use a tire pressure gauge to check the tire pressure.

The CHECK TIRE PRESSURE warning appears each time the ignition switch is placed in the ON position as long as the low tire pressure warning light remains illuminated.

For additional information, see “Vehicle information display” (P.2-22), “Tire Pressure Monitoring System (TPMS)” (P.5-5) and “Tire Pressure Monitoring System (TPMS) ” (P.6-3).

TPMS malfunction:

If the TPMS is not functioning properly, the low tire pressure warning light will flash for approximately 1 minute when the ignition switch is pushed ON. The light will remain on after 1 minute. Have the system checked. It is recommended you visit an INFINITI retailer for this service. The CHECK TIRE PRESSURE warning does not appear if the low tire pressure warning light illuminates to indicate a TPMS malfunction.

For additional information, see “Tire Pressure Monitoring System (TPMS)” (P.5-5).

WARNING

- **If the light does not illuminate with the ignition switch pushed ON, have the vehicle checked as soon as possible. It is recommended you visit an INFINITI retailer for this service.**
- **If the light illuminates or LOW PRESSURE information is displayed on the monitor screen while driving, avoid sudden steering maneuvers or abrupt braking, reduce vehicle speed, pull off the road to a safe location and stop the vehicle as soon as possible. Driving with underinflated tires may permanently damage the tires and increase the likelihood of tire failure. Serious vehicle damage could occur and may lead to an accident and could result in serious personal injury. Check the tire pressure for all four tires. Adjust the tire pressure to the recommended COLD tire pressure shown on the Tire and Loading Information label to turn the low tire pressure warning light OFF. If the light still illuminates while driving after adjusting the tire pressure, a tire may be flat or the TPMS may be malfunctioning. If you have a flat tire, replace it with a spare tire as soon as possible. If no tire is flat and all tires are properly inflated, it is recommended you consult an INFINITI retailer.**
- **Since the spare tire is not equipped with the TPMS, when a spare tire is mounted or a wheel is replaced, the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute. The light will remain on after 1 minute. Have your tires replaced and/or TPMS system reset as soon as possible. It is recommended you visit an INFINITI retailer for these services.**
- **Replacing tires with those not originally specified by INFINITI could affect the proper operation of the TPMS.**

CAUTION

- **The TPMS is not a substitute for the regular tire pressure check. Be sure to check the tire pressure regularly.**
- **If the vehicle is being driven at speeds of less than 16 MPH (25 km/h), the TPMS may not operate correctly.**
- **Be sure to install the specified size of tires to the four wheels correctly.**

Master warning light

When the ignition switch is in the ON position, the master warning light illuminates if any of the following are displayed on the vehicle information display:

- No key warning
- Low fuel warning
- Low washer fluid warning
- Parking brake release warning
- Door/liftgate open warning
- Front radar obstruction warning (if so equipped)
- Headlight warning
- Loose fuel cap warning
- Check tire pressure warning
- Back-up Collision Intervention (BCI) not available warning (if so equipped)
- Back-up Collision Intervention (BCI) malfunction warning (if so equipped)

- Forward Emergency Braking (FEB) system warning (if so equipped)
- Extended storage fuse warning (if so equipped)

See “Vehicle information display” (P.2-22).

Seat belt warning light and chime

The light and chime remind you to fasten seat belts. The light illuminates whenever the ignition switch is pushed to the ON position, and will remain illuminated until the driver’s seat belt is fastened. At the same time, the chime will sound for about 6 seconds unless the driver’s seat belt is securely fastened.

The seat belt warning light for the front passenger will illuminate if the seat belt is not fastened when the front passenger’s seat is occupied. For approximately 5 seconds after the ignition switch is in the ON position, the system does not activate the warning light for the front passenger.

See “Seat belts” (P.1-19) for precautions on seat belt usage.

Supplemental air bag warning light

After pushing the ignition switch to the ON position, the supplemental air bag warning light will illuminate. The supplemental air bag warning light will turn off after about 7 seconds if the air bag and/or pretensioner systems are operational.

If any of the following conditions occur, the air bag and/or pretensioner systems needs servicing.

- The supplemental air bag warning light remains on after approximately 7 seconds.
- The supplemental air bag warning light flashes intermittently.
- The supplemental air bag warning light does not come on at all.

It is recommended you visit an INFINITI retailer for these services.

Unless checked and repaired, the supplemental restraint system (air bag system) and/or the pretensioners may not function properly.

For additional information, see “Supplemental restraint system” (P.1-54).

WARNING

If the supplemental air bag warning light is on, it could mean that the front air bag, side air bag, curtain air bag systems and/or pretensioner systems will not operate in an accident. To help avoid injury to yourself or others, have your vehicle checked by a retailer as soon as possible.

Vehicle Dynamic Control (VDC) warning light

The light will blink when the VDC system or the traction control system is operating, thus alerting the driver that the vehicle is nearing its traction limits. The road surface may be slippery.

When the VDC warning light illuminates when the VDC system is turned on, this light alerts the driver to the fact that the VDC system’s fail-safe mode is operating, for example the VDC or hill start assist system may not be functioning properly. Have the system checked. It is recommended you visit an INFINITI retailer for this service. If a malfunction occurs in the system, the VDC system function will be

canceled but the vehicle is still driveable. For additional information, see “Vehicle Dynamic Control (VDC) system” (P.5-137).

INDICATOR LIGHTS

AFS OFF Adaptive Front lighting System (AFS) indicator light (if so equipped)

When the ignition switch is pushed to the ON position, the Adaptive Front lighting System (AFS) indicator light will illuminate. The light will turn off in about 1 second if the AFS is operational.

If the AFS indicator light blinks, it may indicate the AFS is not functioning properly. Have the system checked. It is recommended you visit an INFINITI retailer for this service.

See “Adaptive Front lighting System (AFS)” (P.2-44).

P/*1 Automatic transmission position indicator light

When the ignition switch is pushed to the ON position, the indicator shows the shift lever position.

In the manual shift mode, when the transmission does not shift to the selected gear due to a transmission protection mode, the AT position indicator light will blink and a buzzer will sound.

See “Automatic transmission” (P.5-18) for further details.

Blind Spot Intervention (BSI) ON indicator light (green; if so equipped)

The light comes on in green when the Blind Spot Intervention (BSI) system is turned on. The light turns off when the system is turned off.

NOTE:

This light is common with the BSW/BSI system warning light (orange). (See “Blind Spot Warning (BSW)/Blind Spot Intervention (BSI) system warning light” (P.2-13).)

For more details, see “Blind Spot Intervention® (BSI)” (P.5-43).

CK SUSP Check suspension indicator light

When the ignition switch is placed in the “ON” position, the light comes on for 2 seconds.

CRUISE Cruise indicator light (if so equipped)

Cruise main switch indicator:

This light illuminates when the cruise control main switch is pushed. The light turns off when the main switch is pushed again. When the cruise main switch indicator light illuminates, the cruise control system is operational. (See “Cruise control” (P.5-67).)

Cruise malfunction:

If the cruise indicator light blinks while the engine is running, it may indicate the cruise control system is not functioning properly. Have the system checked. It is recommended you visit an INFINITI retailer for this service. (See “Cruise control” (P.5-67).)

Exterior light indicator

This indicator illuminates when the headlight switch is turned to the AUTO, ≡D◻≡ or position and the front parking lights, instrument panel lights, rear combination lights, license plate lights or headlights are on. The indicator turns off when these lights are turned off.

Front passenger air bag status light

The front passenger air bag status light () located on the instrument panel will be lit and the passenger front air bag will be OFF depending on how the front passenger seat is being used.

For front passenger air bag status light operation, see “INFINITI Advanced Air Bag System (front seats)” (P.1-60).

High beam assist indicator light

The indicator light illuminates when the headlights come on while the headlight switch is in the AUTO position with the high beam selected. This indicates that the high beam assist system is operational. (See “High beam assist” (P.2-40).)

High beam indicator light

This light comes on when the headlight high beam is on and goes out when the low beam is selected.

Lane Departure Prevention (LDP) ON indicator light (green; if so equipped)

The light comes on in green when the Lane Departure Prevention (LDP) system is turned on. The light turns off when the system is turned off.

NOTE:

This light is common with the Lane Departure Warning (LDW) indicator light (orange). (See “Lane Departure Warning (LDW) indicator light” (P.2-16).)

For more details, see “Lane Departure Warning (LDW)/Lane Departure Prevention (LDP) ” (P.5-23).

Malfunction Indicator Light (MIL)

If the malfunction indicator light comes on steady or blinks while the engine is running, it may indicate a potential emission control malfunction.

The malfunction indicator light may also come on steady if the fuel-filler cap is loose or missing, or if the vehicle runs out of fuel. Check to make sure the fuel-filler cap is installed and closed tightly, and that the vehicle has at least 3 US gallons (14 liters) of fuel in the fuel tank.

After a few driving trips, the light should turn off if no other potential emission control system malfunction exists.

If this indicator light remains on for 20 seconds and then blinks for 10 seconds when the engine is not running, it indicates that the vehicle is not ready for an emission control system inspection/maintenance test. (See “Readiness for Inspection/Maintenance (I/M) test” (P.10-34).)

Operation:

The malfunction indicator light will come on in one of two ways:

- Malfunction indicator light on steady — An emission control system malfunction has been detected. Check the fuel-filler cap if the LOOSE FUEL CAP warning appears in the vehicle information display. If the fuel-filler cap is loose or missing, tighten or install the cap and continue to drive the vehicle. The light should turn off after a few driving trips. If the light does not turn off after a few driving trips, have the vehicle inspected. It is recommended

you visit an INFINITI retailer for this service. You do not need to have your vehicle towed to the retailer.

- Malfunction indicator light blinking — An engine misfire has been detected which may damage the emission control system.

 To reduce or avoid emission control system damage:

 1) Do not drive at speeds above 45 MPH (72 km/h).
 2) Avoid hard acceleration or deceleration.
 3) Avoid steep uphill grades.
 4) If possible, reduce the amount of cargo being hauled or towed.

 The malfunction indicator light may stop blinking and remain on.

 Have the vehicle inspected. It is recommended you visit an INFINITI retailer for this service. You do not need to have your vehicle towed to the retailer.

CAUTION

Continued vehicle operation without having the emission control system checked and repaired as necessary could lead to poor driveability, reduced fuel economy, and possible damage to the emission control system.

Security indicator light

The light blinks when the ignition switch is in the ACC, OFF and LOCK position. This function indicates the security system equipped on the vehicle is operational.

If the security system is malfunctioning, this light will remain on while the ignition switch is in the ON position. For additional information, see “Security systems” (P.2-32).

SNOW mode indicator light

When selecting SNOW mode while the engine is running, this light will illuminate. (See “SNOW mode” (P.5-134).)

TOW mode indicator light

This light will illuminate when the TOW MODE is selected while the engine is running. (See “Tow mode” (P.5-133).)

Turn signal/hazard indicator lights

The light flashes when the turn signal switch lever or hazard switch is turned on.

Vehicle Dynamic Control (VDC) off indicator light

When the ignition switch is in the “ON” position, the Vehicle Dynamic Control (VDC) off indicator light illuminates and then turns off.

The light comes on when the vehicle dynamic control off switch is pushed to OFF. This indicates that the vehicle dynamic control system is not operating.

When the 4L position is selected with the Four-Wheel Drive (4WD) shift switch, the VDC system is disabled and the VDC off indicator light illuminates. (4WD models)

For additional information, see “Vehicle Dynamic Control (VDC) system” (P.5-137).

AUDIBLE REMINDERS

Key reminder chime

A chime will sound if the driver side door is opened while the ignition switch is pushed to the ACC position. Make sure the ignition switch is pushed to the OFF position, and take the Intelligent Key with you when leaving the vehicle.

Light reminder chime

A chime will sound when the driver side door is opened with the light switch in the or position and the ignition switch in the ACC, OFF or LOCK position.

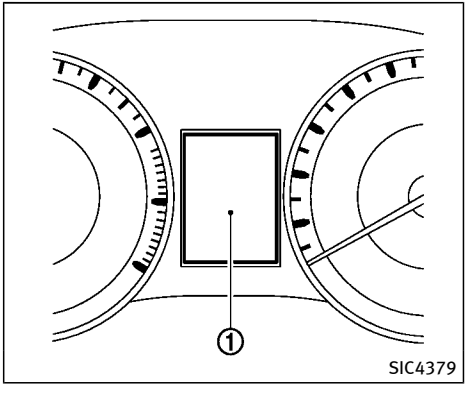
Turn the light switch off when you leave the vehicle.

Parking brake reminder chime

The chime will sound if the vehicle is driven at more than 4 MPH (7 km/h) with the parking brake applied. Stop the vehicle and release the parking brake.

Brake pad wear warning

The disc brake pads have audible wear warnings. When a brake pad requires replacement, it will make a high pitched scraping sound when the vehicle is in motion. This scraping sound will first occur only when the brake pedal is depressed. After more wear of the brake pad, the sound will always be heard even if the brake pedal is not depressed. Have the brakes checked as soon as possible if the warning sound is heard.

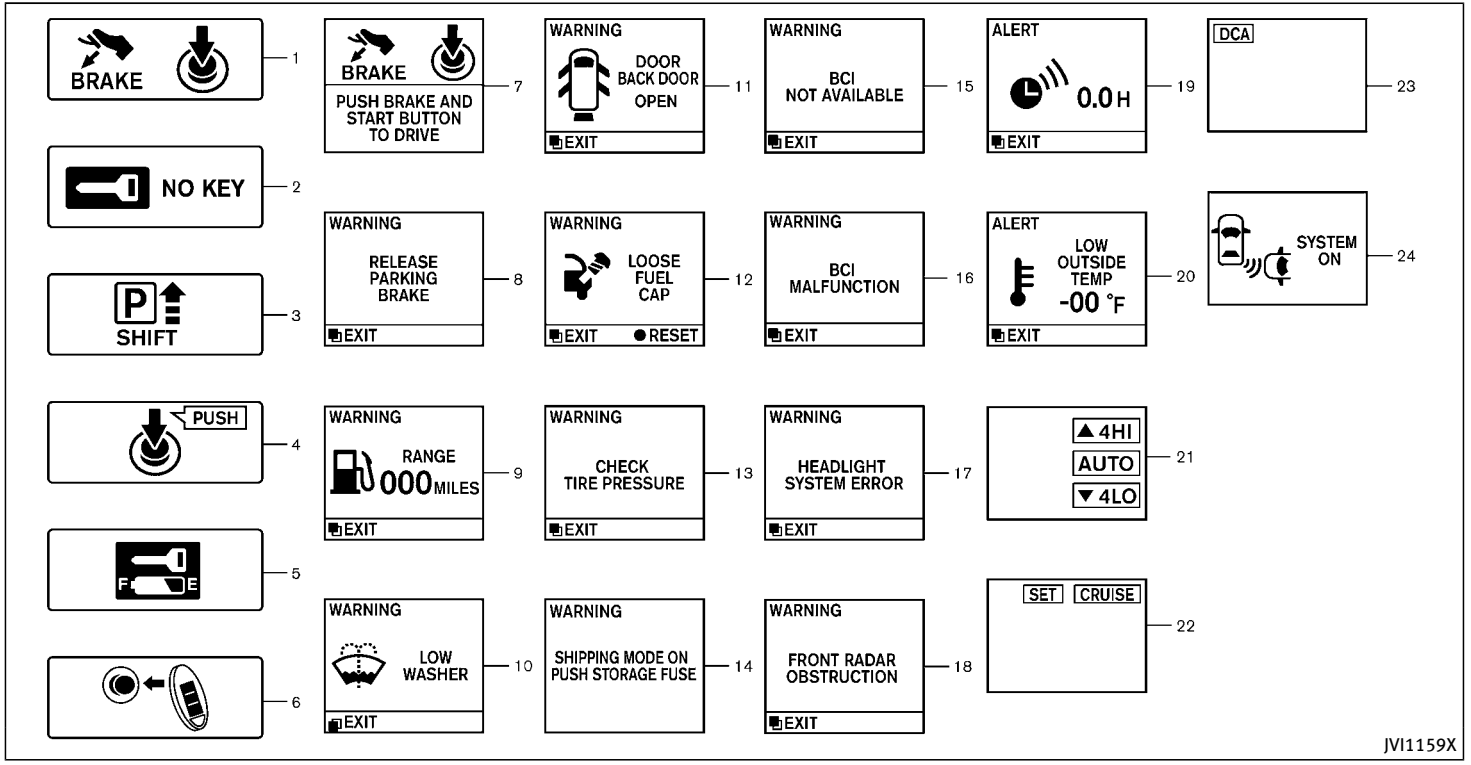


The vehicle information display (1) located between the speedometer and odometer, and shows the indicators for the driving systems, Intelligent Key operation and various warnings and information.

For detailed information about each system, see the following sections:

- Automatic Transmission (AT)
 - — “Warning lights, indicator lights and audible reminders” (P.2-11).
 - — “Driving the vehicle” (P.5-17).
- Four-Wheel Drive (4WD) system
 - — “INFINITI all-mode 4WD®” (P.5-124).

- Back-up Collision Intervention (BCI) system
 — “Back-up Collision Intervention (BCI)” (P.5-56).
- Cruise control system
 — “Cruise control” (P.5-67).
- Intelligent Cruise Control (ICC) system
 — “Intelligent Cruise Control (ICC)” (P.5-69).
- Distance Control Assist (DCA) system
 — “Distance Control Assist (DCA)” (P.5-91).
- Intelligent Key system
 — “Intelligent Key system” (P.3-7).
 — “Push-button ignition switch” (P.5-12).
- Forward Emergency Braking (FEB) with pedestrian detection system
 — “Forward Emergency Braking (FEB) with pedestrian detection” (P.5-105).
- Predictive Forward Collision Warning (PFCW) system
 — “Predictive Forward Collision Warning (PFCW)” (P.5-113).


BRAKE
1
NO KEY
2
P
SHIFT
3
PUSH
4
5
6
BRAKE
PUSH BRAKE AND START BUTTON TO DRIVE
7
WARNING
RELEASE PARKING BRAKE
EXIT
8
WARNING
RANGE
000 MILES
EXIT
9
WARNING
LOW WASHER
EXIT
10
WARNING
DOOR BACK DOOR OPEN
EXIT
11
WARNING
LOOSE FUEL CAP
EXIT
RESET
12
WARNING
CHECK TIRE PRESSURE
EXIT
13
WARNING
SHIPPING MODE ON PUSH STORAGE FUSE
14
WARNING
BCI NOT AVAILABLE
EXIT
15
WARNING
BCI MALFUNCTION
EXIT
16
WARNING
HEADLIGHT SYSTEM ERROR
EXIT
17
WARNING
FRONT RADAR OBSTRUCTION
EXIT
18
ALERT
0.0 H
EXIT
19
ALERT
LOW OUTSIDE TEMP
-00 °F
EXIT
20
4HI
AUTO
4LO
21
SET
CRUISE
22
DCA
23
SYSTEM ON
24
JVI1159X

OPERATIONAL INDICATORS

1. Engine start operation indicator

This indicator appears when the shift lever is in the P (Park) position.

This indicator means that the engine will start by pushing the ignition switch with the brake pedal depressed.

2. NO KEY warning

This warning appears in either of the following conditions.

No key inside the vehicle:

The warning appears when the door is closed with the Intelligent Key left outside the vehicle and the ignition switch in the ACC or ON position. Make sure that the Intelligent Key is inside the vehicle.

Unregistered Intelligent Key:

The warning appears when the ignition switch is pushed from the LOCK position and the Intelligent Key cannot be recognized by the system. You cannot start the engine with an unregistered key. Use the registered Intelligent Key.

See “Intelligent Key system” (P.3-7) for more details.

3. SHIFT “P” warning

This warning appears when the ignition switch is pushed to stop the engine with the shift lever in any position except the P (Park) position.

If this warning appears, move the shift lever to the P (Park) position or push the ignition switch to the ON position.

An inside warning chime will also sound. (See “Intelligent Key system” (P.3-7).)

4. “PUSH” warning

This warning appears when the shift lever is moved to the P (Park) position with the ignition switch in the ACC position after the SHIFT “P” warning appears.

To push the ignition switch to the OFF position, perform the following procedure:

SHIFT “P” warning → (Move the shift lever to “P”) → **PUSH warning** → (Push the ignition switch → ignition switch position is turned to ON) → **PUSH warning** → (Push the ignition switch → ignition switch position is turned to OFF)

5. Intelligent Key battery discharge indicator

This indicator appears when the Intelligent Key battery is running out of power.

If this indicator appears, replace the battery with a new one. (See “Intelligent Key battery replacement” (P.8-21).)

6. Engine start operation for Intelligent Key system indicator

This indicator appears when the Intelligent Key battery is running out of power and when the Intelligent Key System and vehicle are not communicating normally.

If this indicator appears, touch the ignition switch with the Intelligent Key while depressing the brake pedal. (See “Intelligent Key battery discharge” (P.5-15).)

7. Remote engine start indicator (if so equipped)

This indicator appears when the engine has been started using the remote start function. To start the vehicle, depress the brake pedal and place the ignition switch in the “ON” position.

For more details, see “Remote engine start” (P.3-19).

8. Parking brake release warning

This warning appears when the vehicle speed is above 4 MPH (7 km/h) and the

parking brake is applied.

9. Low fuel warning

This warning appears when the fuel level in the tank is getting low. Refuel as soon as it is convenient, preferably before the fuel gauge reaches the 0 (Empty) position.

There is a small reserve of fuel remaining in the tank when the fuel gauge reaches the 0 (Empty) position.

10. Low washer fluid warning

This warning appears when the washer tank fluid is at a low level. Add washer fluid as necessary. (See “Window washer fluid” (P.8-11).)

11. Door/liftgate open warning (ignition switch is in the ON position)

This warning appears if any of the doors and/or the liftgate are open or not closed securely. The vehicle icon indicates which door or the liftgate is open on the display.

12. Loose fuel cap warning

This warning appears when the fuel-filler cap is not tightened correctly after the vehicle has been refueled. (See “Fuel-filler cap” (P.3-28).)

13. Check tire pressure warning

This warning appears when the low tire pressure warning light in the meter illuminates and low tire pressure is detected. The warning appears each time the ignition switch is placed in the ON position as long as the low tire pressure warning light remains illuminated. If this warning appears, stop the vehicle and adjust the tire pressure to the recommended COLD tire pressure shown on the Tire and Loading Information label. (See “Low tire pressure warning light” (P.2-16) and “Tire Pressure Monitoring System (TPMS)” (P.5-5).)

14. Extended storage fuse warning (if so equipped)

This warning may appear if the extended storage fuse switch is not pushed in (switched on). When this warning appears, push in (switch on) the extended storage fuse switch to turn off the warning. For more information, see “Extended storage fuse switch” (P.8-20).

15. Back-up Collision Intervention (BCI) not available warning (if so equipped)

This warning appears when the Back-up Collision Intervention (BCI) system is temporarily not available.

For more details, see “Back-up Collision Intervention (BCI)” (P.5-56).

16. Back-up Collision Intervention (BCI) malfunction warning (if so equipped)

This warning appears when the Back-up Collision Intervention (BCI) system is not functioning properly.

For more details, see “Back-up Collision Intervention (BCI)” (P.5-56).

17. Headlight warning

This warning appears if the LED headlights are malfunctioning. It is recommended you have the system checked by an INFINITI retailer.

18. Front radar obstruction warning (if so equipped)

This warning appears when the sensor area of the front bumper is covered with dirt or is obstructed, making it impossible to detect a vehicle ahead.

The following systems will be automatically canceled.

- Intelligent Cruise Control (ICC) system (if so equipped)
- Distance Control Assist (DCA) system (if so equipped)
- Forward Emergency Braking (FEB) with pedestrian detection system (if so equipped)
- Predictive Forward Collision Warning (PFCW) system (if so equipped)

For more details, see “Intelligent Cruise Control (ICC)” (P.5-69), “Distance Control Assist (DCA)” (P.5-91), “Forward Emergency Braking (FEB) with pedestrian detection” (P.5-105) or “Predictive Forward Collision Warning (PFCW)” (P.5-113).

19. “TIMER” indicator

This indicator appears when the set “TIMER” indicator activates. You can set the time for up to 6 hours. (See “Trip computer” (P.2-29).)

20. Low outside temperature warning

This warning appears if the outside temperature is below 37°F (3°C). The warning can be set not to be displayed. (See “Trip computer” (P.2-29).)

21. Four-Wheel Drive (4WD) shift indicator (4WD models)

This indicator shows the Four-Wheel Drive (4WD) driving mode (AUTO, 4HI or 4LO) that is selected by the 4WD shift switch. (See “INFINITI all-mode 4WD®” (P.5-124).)

22. Intelligent Cruise Control (ICC) system MAIN switch indicator (if so equipped)

The Intelligent Cruise Control (ICC) system main switch indicator (CRUISE) is displayed when the ICC main switch is pushed. When the main switch is pushed again, the indicator disappears. While the CRUISE indicator is displayed, the ICC system is operational.

The cruise control set indicator (SET) is displayed while the vehicle is controlled by the conventional (fixed speed) cruise control mode of the ICC system.

For more details, see “Intelligent Cruise Control (ICC)” (P.5-69).

23. Distance Control Assist (DCA) system switch indicator (if so equipped)

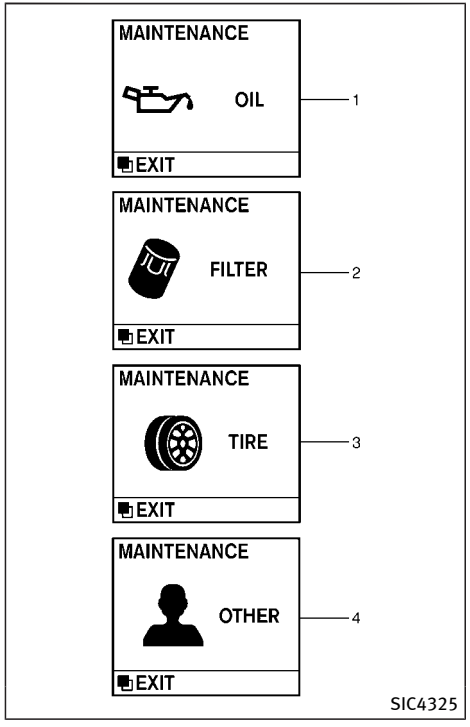
The indicator is displayed when the Distance Control Assist (DCA) system switch is pushed on. When the switch is pushed again, the indicator disappears. While the indicator is displayed, the DCA system is operational. (See “Distance Control Assist (DCA)” (P.5-91) .)

24. Back-up Collision Intervention (BCI) system indicator (if so equipped)

The BCI ON indicator (SYSTEM ON) appears when the shift lever is in the R (Reverse) position with the Back-up Collision Intervention (BCI) system turned on.

If the BCI system is turned off using the BCI switch, the BCI OFF indicator (SYSTEM OFF) appears.

For more details, see “Back-up Collision Intervention (BCI)” (P.5-56).



MAINTENANCE INDICATORS

1. Engine oil replacement indicator

This indicator appears when the customer set time comes for changing the engine oil. You can set or reset the distance for changing the engine oil. (See “Trip computer” (P.2-29).)

2. Oil filter replacement indicator

This indicator appears when the customer set time comes for replacing the oil filter. You can set or reset the distance for replacing the oil filter. (See “Trip computer” (P.2-29).)

3. Tire replacement indicator

This indicator appears when the customer set distance comes for replacing tires. You can set or reset the distance for replacing tires. (See “Trip computer” (P.2-29).)

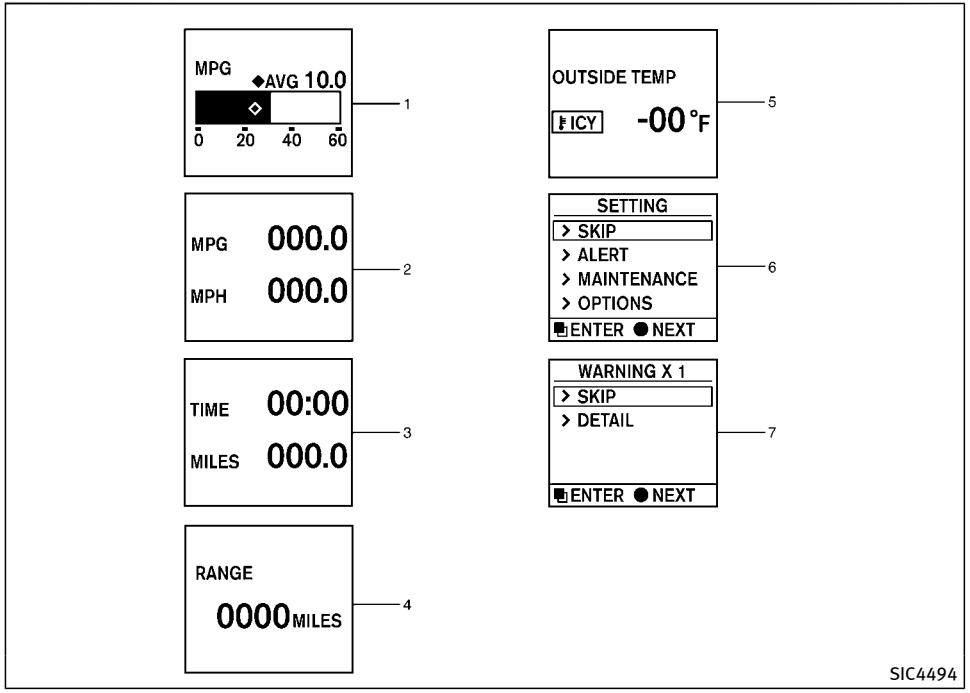
WARNING

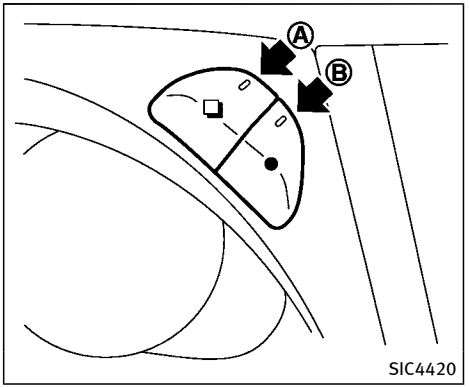
The tire replacement indicator is not a substitute for regular tire checks, including tire pressure checks. See “Changing wheels and tires” (P.8-34). Many factors including tire inflation, alignment, driving habits and road conditions affect tire wear and when tires should be replaced. Setting the tire replacement indicator for a certain driving distance does not mean your tires will last that long. Use the tire replacement indicator as a guide only and always perform regular tire checks. Failure to perform regular tire checks, including tire pressure checks could result in tire failure. Serious vehicle damage could occur and may lead to a collision, which could result in serious personal injury or death.

4. “OTHER” indicator

This indicator appears when the customer set time comes for replacing items other than the engine oil, oil filter and tires. You can set or reset the distance for replacing the items. (See “Trip computer” (P.2-29).)

More maintenance reminders are also available on the center display. (See “How to use INFO button” (P.4-7).)





TRIP COMPUTER

Switches for the trip computer are located on the right side of the combination meter panel. To operate the trip computer, push the switches as shown above.

Ⓐ ❑ switch

Ⓑ ● switch

When the ignition switch is pushed to the ON position, modes of the trip computer can be selected by pushing the ❑ switch Ⓐ.

Each time the ❑ switch Ⓐ is pushed, the display will change as follows:

Current fuel consumption → Average fuel consumption and speed → Elapsed time and trip odometer → Distance to empty (dte) → Outside air temperature (ICY) → Setting → Warning check

1. Current and average fuel consumption

The current and average fuel consumption mode shows the current and average fuel consumption.

2. Average fuel consumption (MPG or l (liter)/100 km) and speed (MPH or km/h)

Fuel consumption:

The average fuel consumption mode shows the average fuel consumption since the last reset. Resetting is done by pushing the ● switch Ⓑ for longer than 1 second. (The average speed is also reset at the same time.)

The display is updated every 30 seconds. At about the first 1/3 mile (500 m) after a reset, the display shows "——".

Speed:

The average speed mode shows the average vehicle speed since the last reset. Resetting is done by pushing the ● switch Ⓑ for longer than 1 second. (The average fuel consumption is also reset at the same time.)

The display is updated every 30 seconds. The first 30 seconds after a reset, the display shows "——".

3. Elapsed time and trip odometer (MILES or km)

Elapsed time:

The elapsed time mode shows the time since the last reset. The displayed time can be reset by pushing the ● switch Ⓑ for longer than 1 second. (The trip odometer is also reset at the same time.)

Trip odometer:

The trip odometer mode shows the total distance the vehicle has been driven since the last reset. Resetting is done by pushing the ● switch Ⓑ for longer than 1 second. (The elapsed time is also reset at the same time.)

4. Distance to empty (dte — MILES or km)

The distance to empty (dte) mode provides you with an estimation of the distance that can be driven before refueling. The dte is constantly being calculated, based on the amount of fuel in the fuel tank and the actual fuel consumption.

The display is updated every 30 seconds.

The dte mode includes a low range warning feature. If the fuel level is low, the warning is displayed on the screen.

When the fuel level drops even lower, the dte display will change to "——".

- If the amount of fuel added is small, the display just before the ignition switch is pushed to the OFF position may continue to be displayed.
- When driving uphill or rounding curves, the fuel in the tank shifts, which may momentarily change the display.

5. Outside air temperature (ICY — °F or °C)

The outside air temperature is displayed in °F or °C in the range of –22 to 131°F (–30 to 55°C).

The outside air temperature mode includes a low temperature warning feature. If the outside air temperature is below 37°F (3°C), the warning is displayed on the screen.

The outside temperature sensor is located in front of the radiator. The sensor may be affected by road or engine heat, wind directions and other driving conditions. The display may differ from the actual outside temperature or the temperature displayed on various signs or billboards.

6. Setting

Setting is available while the engine is running.

Setting cannot be made while driving. A message "SETTING CAN ONLY BE OPERATED WHEN STOPPED" is also displayed on the vehicle information display.

The ❑ switch Ⓐ and ● switch Ⓑ are used in the setting mode to select and decide a menu.

SKIP:

Push the ❑ switch Ⓐ to move to the warning check mode.

Push the ● switch Ⓑ to select other menus.

ALERT:

There are 3 submenus under the alert menu.

- BACK
 Select this submenu to return to the top page of the setting mode.
- TIMER
 Select this submenu to specify when the "TIMER" indicator activates.
- ICY
 Select this submenu to display the low outside temperature warning.

MAINTENANCE:

There are 5 submenus under the maintenance menu.

- BACK
 Select this submenu to return to the top page of the setting mode.
- OIL
 Select this submenu to set or reset the distance for changing the engine oil.
- FILTER
 Select this submenu to set or reset the distance for replacing the oil filter.
- TIRE
 Select this submenu to set or reset the distance for replacing tires.
- OTHER
 Select this submenu and set or reset the distance for replacing items other than the engine oil, oil filter and tires.

OPTIONS:

There are 4 submenus under the display menu.

- BACK
 Select this submenu to return to the top page of the setting mode.
- LANGUAGE
 Select this submenu to choose English, French or Spanish for display.
- UNIT
 Select this submenu to choose the unit.
- EFFECTS
 Select this submenu to turn on and off the needle sweep function when starting the engine.

7. Warning check

SKIP:

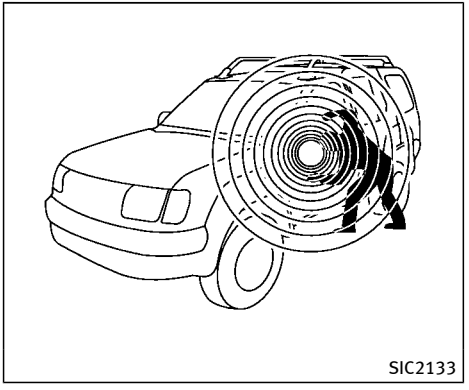
Push the ❑ switch Ⓐ to move to the warning check mode.

Push the ● switch Ⓑ to select other menus.

DETAIL:

This item is available only when a warning is displayed.

Select this menu to see the details of warnings.



Your vehicle has two types of security systems, as follows:

- Vehicle security system
- INFINITI Vehicle Immobilizer System

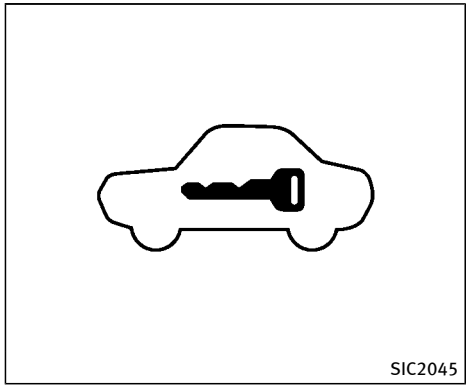
The security condition will be shown by the security indicator light.

VEHICLE SECURITY SYSTEM

The vehicle security system provides visual and audio alarm signals if someone opens the doors, hood, or liftgate when the system is armed. It is not, however, a motion detection type system that activates when a vehicle is moved or when a vibration occurs.

The system helps deter vehicle theft but cannot prevent it, nor can it prevent the theft of interior or exterior vehicle components in all situations. Always secure your vehicle even if parking for a brief period. Never leave your Intelligent Key(s) in the vehicle, and always lock it when unattended. Be aware of your surroundings, and park in secure, well-lit areas whenever possible.

Many devices offering additional protection, such as component locks, identification markers, and tracking systems, are available at auto supply stores and specialty shops. Your INFINITI retailer may also offer such equipment. Check with your insurance company to see if you may be eligible for discounts for various theft protection features.



How to arm the vehicle security system

1. Close all windows.

 The system can be armed even if the windows are open.
2. Push the ignition switch to the OFF position.
3. Remove the Intelligent Key from the vehicle.
4. Close all doors, hood and liftgate. Lock all doors. The doors can be locked with the Intelligent Key, door handle request switch, power door lock switch or mechanical key.
5. Confirm that the security indicator light comes on. The security indicator light stays on for about 30 seconds. The vehicle security system is now pre-armed. After about 30 seconds the vehicle security system automatically shifts into the armed phase. The security light begins to flash once every approximately 3 seconds. If, during this 30-second pre-arm time period, the door is unlocked, or the ignition switch is pushed to ACC or ON, the system will not arm.

Even when the driver and/or passengers are in the vehicle, the system will activate with all doors, hood, and liftgate locked with the ignition switch in the LOCK position. When pushing the ignition switch to the ACC or ON position, the system will be released.

Vehicle security system activation

The vehicle security system will give the following alarm:

- The headlights blink and the horn sounds intermittently.
- The alarm automatically turns off after approximately 50 seconds. However, the alarm reactivates if the vehicle is tampered with again.

The alarm is activated by:

- Unlocking the door or opening the liftgate without using the button on the Intelligent Key, the door handle request switch or the mechanical key. (Even if the door is opened by releasing the door inside lock knob, the alarm will activate.)
- Opening the hood.

How to stop an activated alarm

The alarm will stop when a door is unlocked by pushing the unlock button on the Intelligent Key, the door handle request switch or using the mechanical key, or when the ignition switch is pushed to the ACC or ON position.

If the system does not operate as described above, it is recommended you have it checked by an INFINITI retailer.

INFINITI VEHICLE IMMOBILIZER SYSTEM

The INFINITI Vehicle Immobilizer System will not allow the engine to start without the use of the registered Intelligent Key. **Never leave these keys in the vehicle.**

FCC Notice:

For USA:

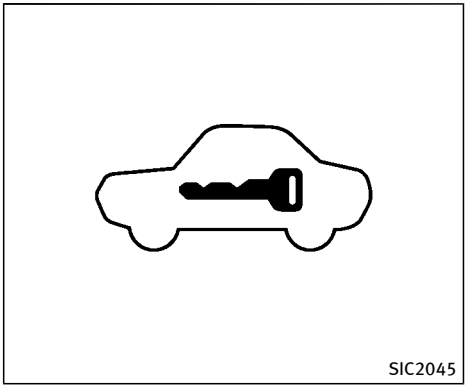
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For Canada:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.



Security indicator light

The security indicator light is located on the meter panel. It indicates the status of the INFINITI Vehicle Immobilizer System.

The light blinks after the ignition switch was in the ACC, OFF and LOCK position. This function indicates the security systems equipped on the vehicle are operational.

If the INFINITI Vehicle Immobilizer System is malfunctioning, this light will remain on while the ignition switch is in the ON position.

If the light still remains on and/or the

engine will not start, seek service for the INFINITI Vehicle Immobilizer System as soon as possible. Please bring all registered keys that you have. It is recommended you visit an INFINITI retailer for this service.

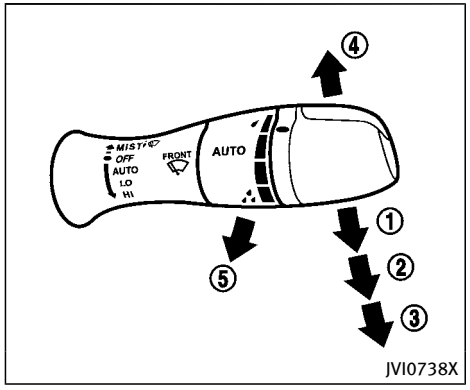
WARNING

In freezing temperatures the washer solution may freeze on the window and obscure your vision which may lead to an accident. Warm the window with the defroster before you wash the window.

CAUTION

- Do not operate the washer continuously for more than 30 seconds.
- Do not operate the washer if the reservoir tank is empty.
- Do not fill the window washer reservoir tank with washer fluid concentrates at full strength. Some methyl alcohol based washer fluid concentrates may permanently stain the grille if spilled while filling the window washer reservoir tank.
- Pre-mix washer fluid concentrates with water to the manufacturer's recommended levels before pouring the fluid into the window washer reservoir tank. Do not use the window washer reservoir tank to mix the washer fluid concentrate and water.

If the windshield wiper operation is interrupted by snow or ice, the wiper may stop moving to protect its motor. If this occurs, turn the wiper switch to the OFF position and remove the snow or ice that is on and around the wiper arms. In approximately 1 minute, turn the switch on again to operate the wiper.



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The windshield wiper and washer operates when the ignition switch is in the ON position.

Push the lever down to operate the wiper at the following speed:

① AUTO — operates the rain-sensing auto wiper system. (See “Rain-sensing auto wiper system” (P.2-36).)
② LO — continuous low speed operation
③ HI — continuous high speed operation
④ MIST — one sweep operation of the wiper

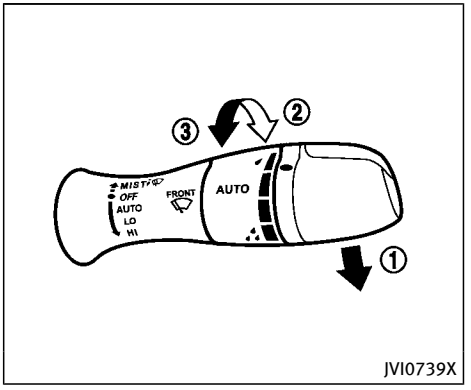
WASHER OPERATION

To operate the washer, pull the lever toward the back of the vehicle ⑤ until the desired amount of washer fluid is spread on the windshield. The wiper will automatically operate several times.

The headlight washer (if so equipped) will also operate with operation of the windshield washer. (See “Headlight washer” (P.2-44).)

Wiper drip wipe system:

The wiper will also operate once about 3 seconds after the washer and wiper are operated. This operation is to wipe washer fluid that has dripped on the windshield.



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RAIN-SENSING AUTO WIPER SYSTEM

The rain-sensing auto wiper system can automatically turn on the wipers and adjust the wiper speed depending on the rainfall and the vehicle speed by using the rain sensor located on the upper part of the windshield.

To set the rain-sensing auto wiper system, push the lever down to the AUTO position ①. The wiper will sweep once while the ignition switch is in the ON position.

The rain sensor sensitivity level can be adjusted by turning the knob toward the

front ② (High) or toward the rear ③ (Low).

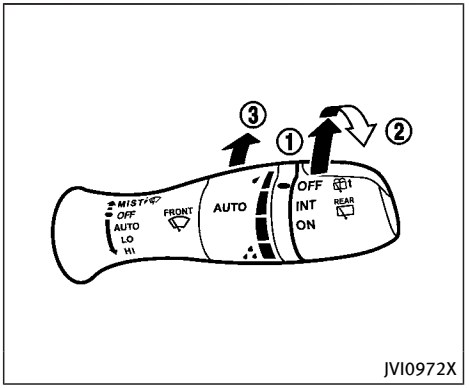
- High — High sensitive operation
- Low — Low sensitive operation

To turn the rain-sensing auto wiper system off, push up the lever to the OFF position, or pull down the lever to the LO or HI position.

CAUTION

Do not touch the rain sensor and around it when the wiper switch is in the AUTO position and the ignition switch is in the ON position. The wipers may operate unexpectedly and cause to an injury or may damage a wiper.

- **The rain-sensing auto wipers are intended for use during rain. If the switch is left in the AUTO position, the wipers may operate unexpectedly when dirt, fingerprints, oil film or insects are stuck on or around the sensor. The wipers may also operate when exhaust gas or moisture affect the rain sensor.**
- **The rain-sensing auto wipers may not operate if rain does not hit the rain sensor even if it is raining.**
- **When the windshield glass is coated with water repellent, the speed of the rain-sensing auto wipers may be higher even though the amount of the rainfall is small.**
- **Be sure to turn off the rain-sensing auto wiper system when you use a car wash.**
- **Using genuine wiper blades is recommended for proper operation of the rain-sensing auto wiper system. (See "Windshield wiper blades" (P.8-16) for wiper blade replacement.)**



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REAR WINDOW WIPER AND WASHER OPERATION

If the rear window wiper operation is interrupted by snow etc., the wiper may stop moving to protect its motor. If this occurs, turn the wiper switch to OFF and remove the snow etc. on and around the wiper arms. After about 1 minute, turn the switch ON again to operate the wiper.

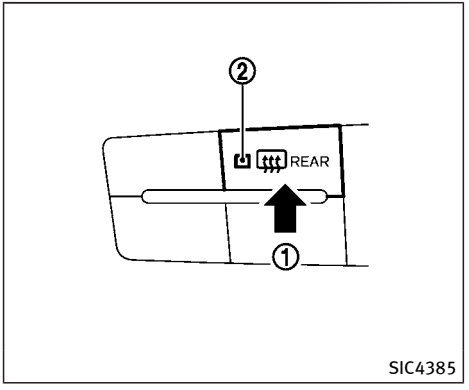
The rear window wiper and washer operate when the ignition switch is in the ON position.

Turn the switch clockwise from the OFF position to operate the wiper.

① Intermittent (INT) — intermittent operation (not adjustable)
② Low (ON) — continuous low speed operation

Push the switch forward ③ to operate the washer. Then the wiper will also operate several times.

REAR WINDOW AND OUTSIDE MIRROR DEFROSTER SWITCH



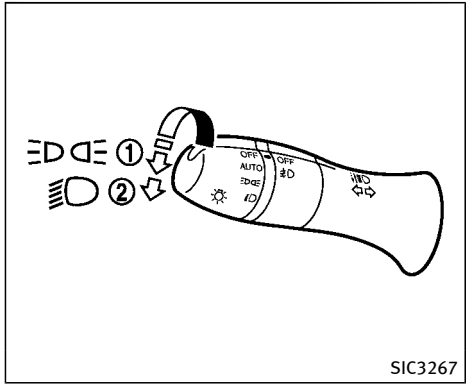
REAR WINDOW AND OUTSIDE MIRROR DEFROSTER

To defog/defrost the rear window glass and outside mirrors, start the engine and push the switch ① on. The indicator light ② will come on. Push the switch again to turn the defroster off.

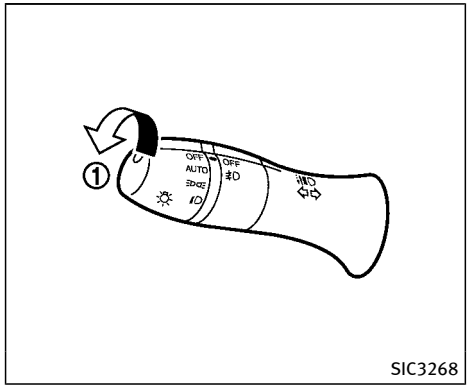
It will automatically turn off in approximately 15 minutes.

CAUTION

When cleaning the inner side of the rear window, be careful not to scratch or damage the rear window defroster.



SIC3267



SIC3268

HEADLIGHT SWITCH

Lighting

① Turn the switch to the position: The front parking, side marker, tail, license plate and instrument lights will come on.

② Turn the switch to the position: Headlights will come on and all the other lights remain on.

Autolight system

The autolight system allows the headlights to be set so they turn on and off automatically.

To set the autolight system:

1. Make sure the headlight switch is in the AUTO position ①.
2. Push the ignition switch to the ON position.
3. The autolight system automatically turns the headlights on and off.

To turn the autolight system off, turn the switch to the OFF, or position.

The autolight system can turn on the headlights automatically when it is dark and turn off the headlights when it is light.

For US models: The headlights will also be turned on automatically at twilight or in rainy weather (when the windshield wiper is operated continuously).

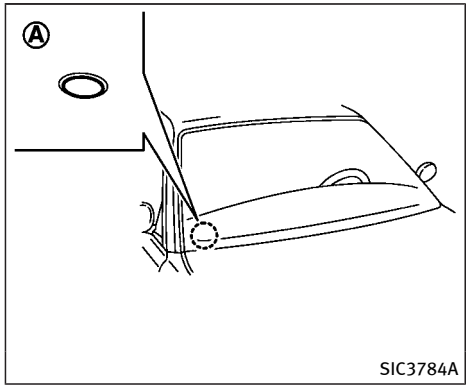
If the ignition switch is pushed to the OFF position and one of the doors is opened and this condition is continued, the headlights remain on for 5 minutes.

Automatic headlights off delay:

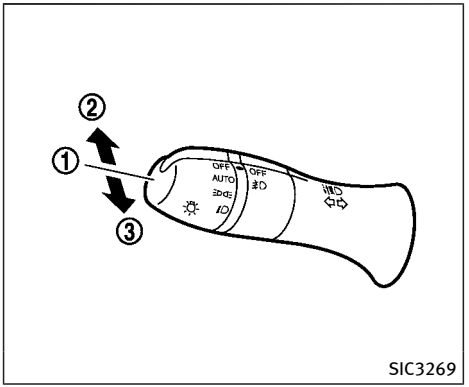
You can keep the headlights on for up to 180 seconds after you push the ignition switch to OFF and open any door then close all the doors.

You can adjust the period of the automatic headlights off delay from 0 seconds (OFF) to 180 seconds. The factory default setting is 45 seconds.

For automatic headlights off delay setting, see “Comfort settings” (P.4-16).



Be sure not to put anything on top of the photo sensor Ⓐ located on the top of the instrument panel. The photo sensor controls the autolight; if it is covered, the photo sensor reacts as if it is dark and the headlights will illuminate.



Headlight beam select

① To select the low beam, put the lever in the neutral position as shown.

② To select the high beam, push the lever forward while the switch is in the position. Pull it back to select the low beam.

③ Pulling the lever toward you will flash the headlight high beam even when the headlight switch is in the OFF position.

High beam assist

The high beam assist system will operate when the vehicle is driven at speeds of approximately 22 MPH (35 km/h) and above. If an oncoming vehicle or leading vehicle appears in front of your vehicle when the headlight high beam is on, the headlight will be switched to the low beam automatically.

Precautions on high beam assist:

WARNING

- **The high beam assist system is a convenience but it is not a substitute for safe driving operation. The driver should remain alert at all times, ensure safe driving practices and switch the high beams and low beam manually when necessary.**
- **The high beam or low beam may not switch automatically under the following conditions. Switch the high beam and low beam manually.**
 - **— During bad weather (rain, fog, snow, wind, etc.).**
 - **— When a light source similar to a**

headlight or tail light is in the vicinity of the vehicle.

— When the headlights of the oncoming vehicle or the leading vehicle are turned off, when the color of the light is affected due to foreign materials on the lights, or when the light beam is out of position.

— When there is a sudden, continuous change in brightness.

— When driving on a road that passes over rolling hills, or a road that has level differences.

— When driving on a road with many curves.

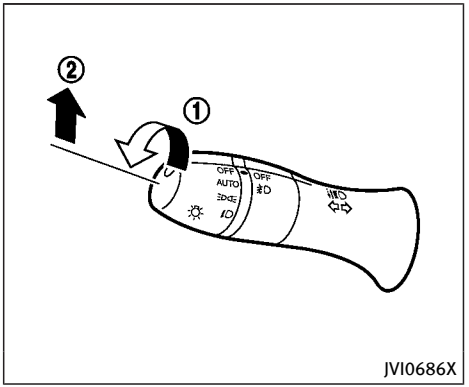
— When a sign or mirror-like surface is reflecting intense light towards the front of the vehicle.

— When the container, etc. being towed by a leading vehicle is reflecting intense light.

— When a headlight on your vehicle is damaged or dirty.

— When the vehicle is leaning at an angle due to a punctured tire, being towed, etc.

- The timing of switching the low beam and high beam may change under the following situations.
 — The brightness of the headlights of the oncoming vehicle or leading vehicle.
 — The movement and direction of the oncoming vehicle and the leading vehicle.
 — When only one light on the oncoming vehicle or the leading vehicle is illuminated.
 — When the oncoming vehicle or the leading vehicle is a two-wheeled vehicle.
 — Road conditions (incline, curve, the road surface, etc.).
 — The number of passengers and the amount of luggage.



High beam assist operations:

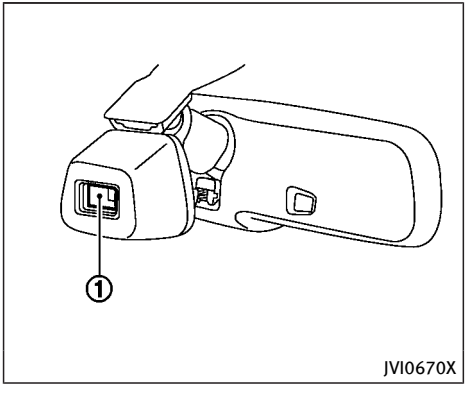
To activate the high beam assist system, turn the headlight switch to the AUTO position ① and push the lever forward ② (high beam position). The high beam assist indicator light in the meter will illuminate while the headlights are turned on.

If the high beam assist indicator light does not illuminate in the above condition, it may indicate that the system is not functioning properly. It is recommended you have the system checked by an INFINITI retailer.

When the vehicle speed lowers to less than approximately 17 MPH (27 km/h), the

headlight remains the low beam.

To turn off the high beam assist system, turn the headlight switch to the position or select the low beam position by placing the lever in the neutral position.



Ambient image sensor maintenance:

The ambient image sensor (1) for the high beam assist system is located in front of the inside mirror. To keep the proper operation of the high beam assist system and prevent a system malfunction, be sure to observe the following:

- Always keep the windshield clean.
- Do not attach a sticker (including transparent material) or install an accessory near the ambient image sensor.
- Do not strike or damage the areas around the ambient image sensor. Do not touch the sensor lens that is located on the ambient image sensor.

If the ambient image sensor is damaged due to an accident, it is recommended you visit an INFINITI retailer for this service.

Battery saver system

A chime will sound when the driver side door is opened with the light switch in the or position and the ignition switch in the OFF or LOCK position.

When the headlight switch is in the or position while the ignition switch is in the ON position, the lights will automatically turn off after a period of time when the ignition switch has been pushed to the OFF position.

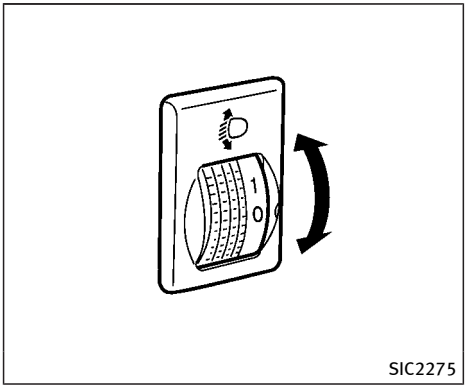
When the headlight switch remains in the or position after the lights automatically turn off, the lights will turn on when the ignition switch is pushed to the ON position.

CAUTION

- **When you turn on the headlight switch again after the lights automatically turn off, the lights will not turn off automatically. Be sure to turn the light switch to**

the OFF position when you leave the vehicle for extended periods of time, otherwise the battery will be discharged.

- **Never leave the light switch on when the engine is not running for extended periods of time even if the headlights turn off automatically.**



SIC2275

Headlight aiming control (if so equipped)

Depending on the number of occupants in the vehicle and the load it is carrying, the headlight axis may be higher than desired. If the vehicle is traveling on a hilly road, the headlights may directly hit the rearview mirror of the vehicle ahead or the windshield of the oncoming vehicle. The light axis can be lowered with the operation of the switch.

The larger the number designated on the switch, the lower the axis.

When traveling with no heavy load or on a flat road, select position 0.

Daytime running light system

The daytime running lights automatically illuminate when the engine is started with the parking brake released. The daytime running lights operate with the headlight switch in the OFF position or in the ≡D≡ position. Turn the headlight switch to the position for full illumination when driving at night.

If the parking brake is applied before the engine is started, the daytime running lights do not illuminate. The daytime running lights illuminate once the parking brake is released. The daytime running lights will remain on until the ignition switch is pushed to the OFF position.

WARNING

When the daytime running light system is active, tail lights on your vehicle are not on. It is necessary at dusk to turn on your headlights. Failure to do so could cause an accident injuring yourself and others.

Adaptive Front lighting System (AFS) (if so equipped)

The Adaptive Front lighting System (AFS) will automatically adjust the headlights (low beam) toward the turning direction to improve the driver's view. When the headlight switch is ON and the driver operates the steering wheel in a turn, the AFS system will be activated.

The AFS will operate:

- when the headlight switch is ON.
- when the shift lever is in any position other than P (Park) or R (Reverse).
- when the vehicle is driven at above 3 MPH (5 km/h) for the left-side headlight. Note that the right-side low beam headlight will swivel but the left-side headlight will not swivel when the vehicle is below 3 MPH (5 km/h) and the steering wheel is turned.

AFS will also adjust the headlight to a proper axis automatically, depending on the number of occupants in the vehicle, the load the vehicle is carrying and the road conditions.

If the AFS OFF indicator light blinks after the ignition switch has been pushed to the ON position, this may indicate that the AFS is not functioning properly. Have the system checked. It is recommended you visit an INFINITI retailer for this service. When the engine is started, the headlights will vibrate to check the system condition. This is not a malfunction.

HEADLIGHT WASHER (if so equipped)

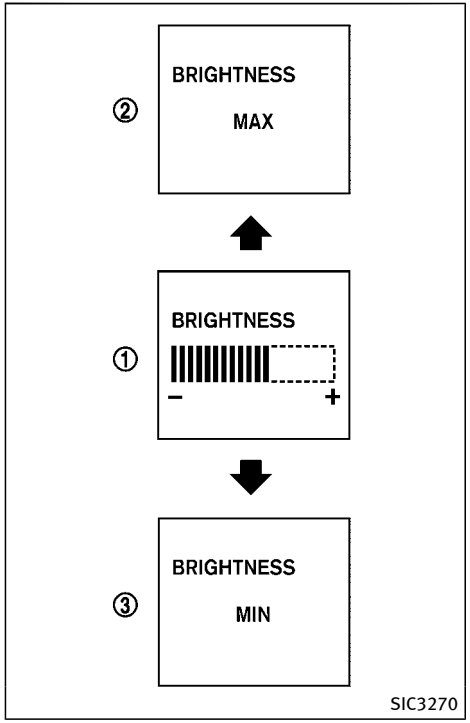
The headlight washer operates when the headlight is on and the ignition switch is in the ON position.

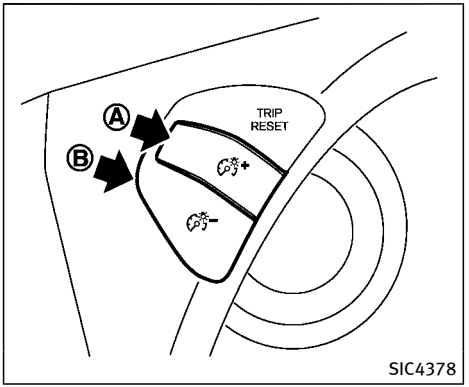
Pull the windshield washer switch toward you. The headlight washer operates with the windshield washer operation. This operation activates once each time either the ignition switch or the headlight switch is turned off and on.

After the first operation, the headlight washer operates once at every fifth operation of the windshield washer.

CAUTION

- **Do not operate the washer continuously for longer than 30 seconds.**
- **Do not operate the headlight washer if the window washer fluid reservoir is empty.**





INSTRUMENT BRIGHTNESS CONTROL

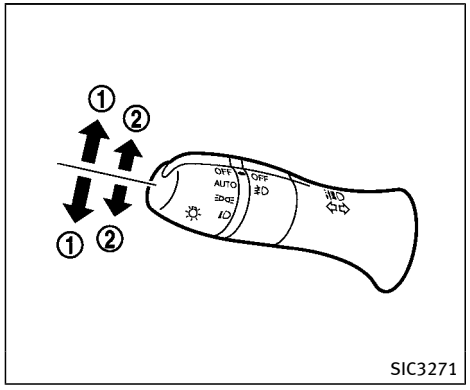
The instrument brightness control switch can be operated when the ignition switch is in the ON position. When the switch is operated, the vehicle information display switches to the brightness adjustment mode.

Push the upper switch Ⓐ to brighten the instrument panel lights. The bar ① moves to the + side. When reaching the maximum brightness, “MAX” appears on the display ②.

Push the lower switch Ⓑ to dim the instrument panel lights. The bar ① moves to the – side. When reaching the minimum brightness, “MIN” appears on the display ③. However, “MIN” does not appear during the nighttime.

The vehicle information display returns to the normal display under the following conditions:

- when the instrument brightness control switch is not operated for more than 5 seconds.
- when the ❑ or ● switch on the right side of the combination meter panel is pushed.



TURN SIGNAL SWITCH

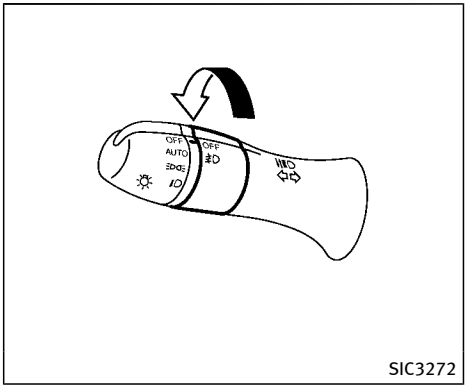
① Turn signal

Move the lever up or down to signal the turning direction. When the turn is completed, the turn signals cancel automatically.

② Lane change signal

- Move the lever up or down until the turn signal begins to flash, but the lever does not latch, to signal a lane change. Hold the lever until the lane change is completed.
- Move the lever up or down until the turn signal begins to flash, but the lever does not latch, and release the lever. The turn signal will automatically flash three times.

Choose the appropriate method to signal a lane change based on road and traffic conditions.

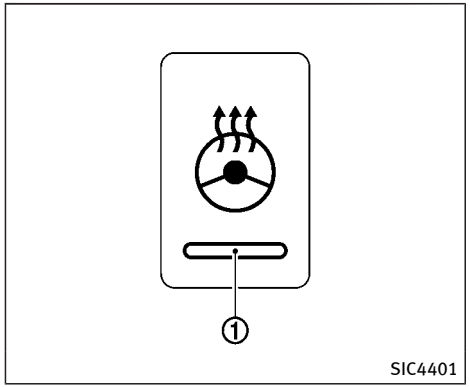


FOG LIGHT SWITCH

To turn the fog lights on, turn the headlight switch to the position, then turn the switch to the position. To turn them off, turn the switch to the OFF position.

The headlights must be on with the low beams selected for the fog lights to operate. The fog lights automatically turn off when the high beam headlights are selected.

HEATED STEERING WHEEL



The heated steering wheel system is designed to operate only when the surface temperature of the steering wheel is below 68°F (20°C).

Push the heated steering wheel switch to warm the steering wheel after the engine starts. The indicator light ① on the switch will illuminate.

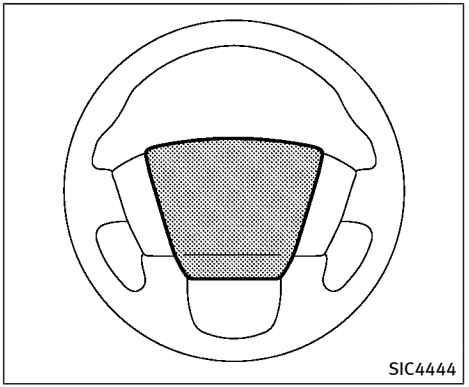
If the surface temperature of the steering wheel is below 68°F (20°C), the system will heat the steering wheel and cycle off and on to maintain a temperature above 68°F (20°C). The indicator light will remain on as long as the system is on.

Push the switch again to turn the heated steering wheel system off manually. The indicator light will turn off.

NOTE:

If the surface temperature of the steering wheel is above 68°F (20°C) when the switch is turned on, the system will not heat the steering wheel. This is not a malfunction.

HORN



To sound the horn, push the center pad area of the steering wheel.

WARNING

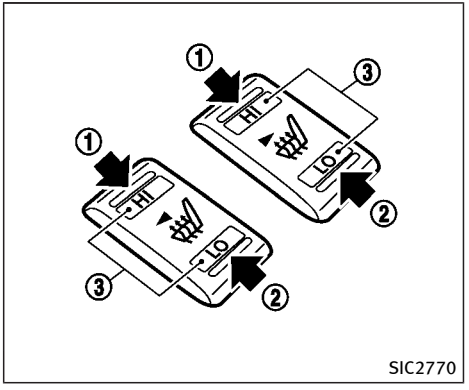
Do not disassemble the horn. Doing so could affect proper operation of the supplemental front air bag system. Tampering with the supplemental front air bag system may result in serious personal injury.

WARNING

Do not use or allow occupants to use the seat heater if you or the occupants cannot monitor elevated seat temperatures or have an inability to feel pain in body parts that contact the seat. Use of the seat heater by such people could result in serious injury.

CAUTION

- **The battery could run down if the seat heater is operated while the engine is not running.**
- **Do not use the seat heater for extended periods or when no one is using the seat.**
- **Do not put anything on the seat which insulates heat, such as a blanket, cushion, seat cover, etc. Otherwise, the seat may become overheated.**
- **Do not place anything hard or heavy on the seat or pierce it with a pin or similar object. This may result in damage to the heater.**
- **Any liquid spilled on the heated seat should be removed immediately with a dry cloth.**
- **When cleaning the seat, never use gasoline, thinner, or any similar materials.**
- **If any malfunctions are found or the heated seat does not operate, turn the switch off and have the system checked. It is recommended you visit an INFINITI retailer for this service.**



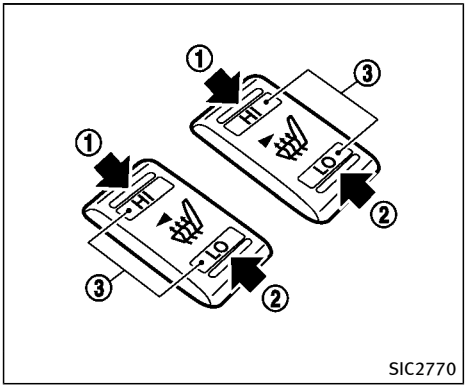
SIC2770

FRONT

The front seats can be warmed by built-in heaters. The switches located on the instrument panel can be operated independently of each other.

1. Start the engine.
2. Select heat range.
 - For high heat, push the HI (High) side of the switch ①.
 - For low heat, push the LO (Low) side of the switch ②.
 - The indicator light ③ will illuminate when the heater is on.

3. To turn off the heater, push the “HI” or “LO” side (whichever is selected) of the switch. Make sure the indicator light turns off.



REAR

The 2nd row outboard seats are warmed by built-in heaters. The switches located on the back side of the center console can be operated independently of each other.

1. Start the engine.
2. Select heat range.

 ① For high heat, push the HI (High) side of the switch.

 ② For low heat, push the LO (Low) side of the switch.

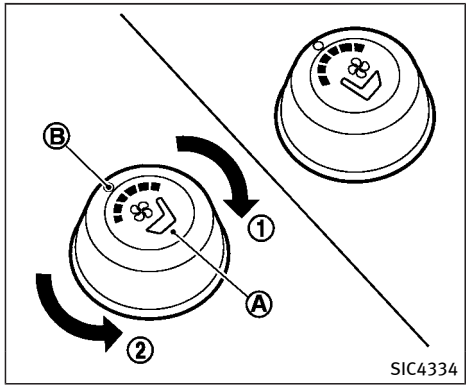
 The indicator light in the switch ③ will illuminate when the heater is on.

3. To turn off the heater, return the switch to the level position. Make sure the indicator light goes off.

 The heater is controlled by a thermostat, automatically turning the heater on and off. The indicator light will remain on as long as the switch is on.

 When the vehicle’s interior is warmed, or before you leave the vehicle, be sure to turn off the switch.

CLIMATE CONTROLLED SEATS (if so equipped)



The climate controlled seat warms up or cools down the front seats by blowing warm or cool air from the surface of the seat. The switches located on the instrument panel can be operated independently of each other.

1. Start the engine.
2. Turn the control knob Ⓐ to the heat side ① or to the cool side ②. The indicator light Ⓑ on the control knob will illuminate.
3. Adjust the temperature using the control knob Ⓐ.
4. When the vehicle's interior is warmed or cooled, and/or before you leave the vehicle, be sure to turn the control knob to the OFF position (center). The indicator light Ⓑ on the control knob goes off at the OFF position.

To check the air filter for the climate controlled seat, it is recommended you visit an INFINITI retailer for this service.

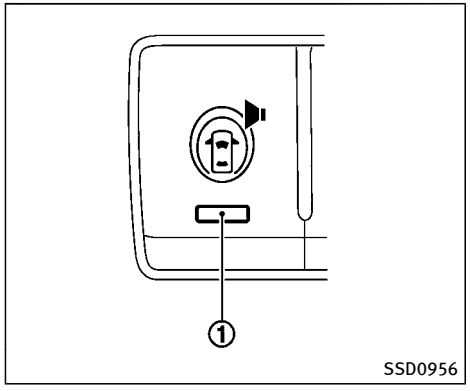
⚠ WARNING

Do not use or allow occupants to use the seat heater if you or the occupants cannot monitor elevated seat temperatures or have an inability to feel pain in body parts that contact the seat. Use of the seat heater by such people could result in serious injury.

⚠ CAUTION

- **The battery could run down if the climate controlled seat is operated while the engine is not running.**
- **Do not use the climate controlled seat for extended periods or when no one is using the seat.**
- **Do not put anything on the seat which insulates heat, such as a blanket, cushion, seat cover, etc. Otherwise, the seat may become overheated.**
- **Do not place anything hard or heavy on the seat or pierce it with a pin or similar object. This may result in damage to the climate controlled seat.**
- **Any liquid spilled on the seat should be removed immediately with a dry cloth.**
- **The climate controlled seat has an air filter. Do not operate climate controlled seat without an air filter. This may result in damage to the system.**
- **When cleaning the seat, never use gasoline, thinner, or any similar materials.**
- **If any malfunctions are found or the climate controlled seat does not operate, turn the switch off and have the system checked. It is recommended you visit an INFINITI retailer for this service.**

WARNING SYSTEMS SWITCH (if so equipped)



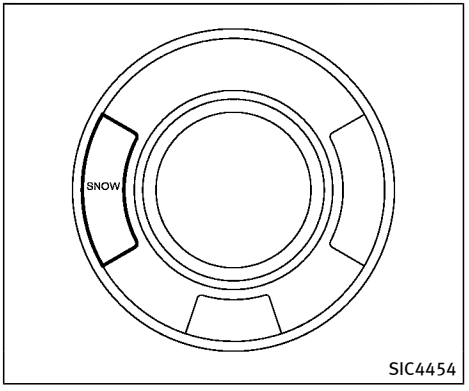
The warning systems switch is used to turn on and off the warning systems (Lane Departure Warning (LDW) and Blind Spot Warning (BSW) systems) that are activated using the settings menu on the center display.

When the warning systems switch is turned off, the indicator ① on the switch is off. The indicator will also be off if all of the warning systems are deactivated using the settings menu.

The LDW system will sound a warning chime and blink the Lane Departure Warning (LDW) indicator light (orange) to alert the driver if the vehicle is traveling close to either the left or the right of a traveling lane with detectable lane markers. (See “Lane Departure Warning (LDW)/Lane Departure Prevention (LDP) ” (P.5-23).)

The BSW system will turn on the side indicator lights, located next to the outside mirrors, if the radar sensors detect a vehicle in the detection zone. If the turn signal is activated in the direction of the detected vehicle, a chime sounds twice and the side indicator light will flash. (See “Blind Spot Warning (BSW)” (P.5-33).)

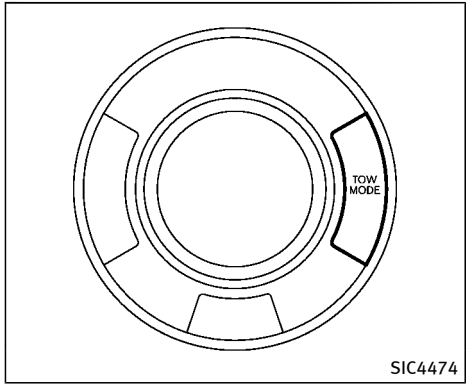
SNOW MODE SWITCH



For driving or starting the vehicle on snowy roads or slippery areas, push on the SNOW mode switch. The SNOW mode indicator light will illuminate. When the SNOW mode is activated, engine output is controlled to avoid wheel spin.

Push off the SNOW mode for normal driving.

TOW MODE SWITCH

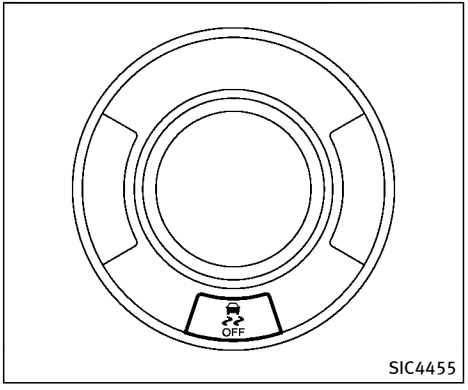


TOW MODE should be used when pulling a heavy trailer or hauling a heavy load. Driving the vehicle in TOW MODE with no trailer/load or light trailer/light load will not cause any damage. However, fuel economy may be reduced, and the transmission/engine driving characteristics may feel unusual.

Push the TOW MODE switch to activate TOW MODE. The indicator light on the TOW MODE switch illuminates when TOW MODE is selected. Push the TOW MODE switch again to turn TOW MODE OFF.

TOW MODE is automatically canceled when the ignition switch is placed in the OFF position.

VEHICLE DYNAMIC CONTROL (VDC) OFF SWITCH



The vehicle should be driven with the Vehicle Dynamic Control (VDC) system on for most driving conditions.

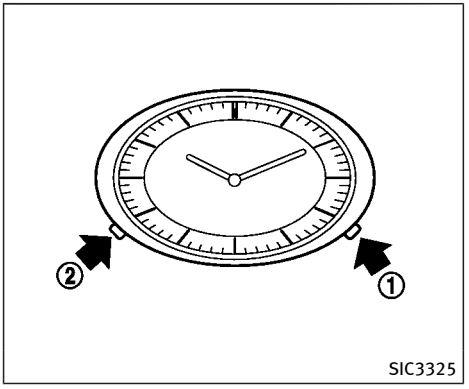
If the vehicle is stuck in mud or snow, the VDC system reduces the engine output to reduce wheel spin. The engine speed will be reduced even if the accelerator is depressed to the floor. If maximum engine power is needed to free a stuck vehicle, turn the VDC system off.

To turn off the VDC system, push the VDC OFF switch. The OFF indicator will illuminate.

Push the VDC OFF switch again or restart the engine to turn on the system. (See

"Vehicle Dynamic Control (VDC) system" (P.5-137).)

CLOCK



If the power supply is disconnected, the clock will not indicate the correct time. Readjust the time.

ADJUSTING THE TIME

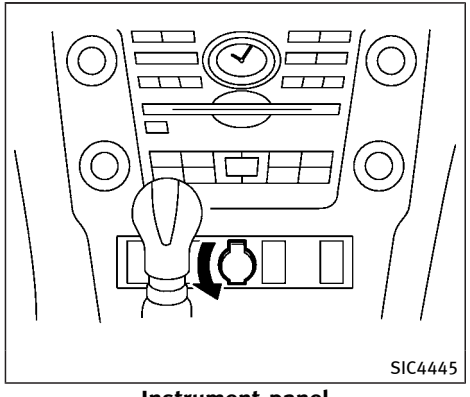
1. To set the clock forward, push the button ①.
2. To set the clock backward, push the button ②.
3. To move forward or backward faster, push and hold the button more than 5 seconds.

For details about display clock adjustment (if so equipped), see "How to use SETTING button" (P.4-12).

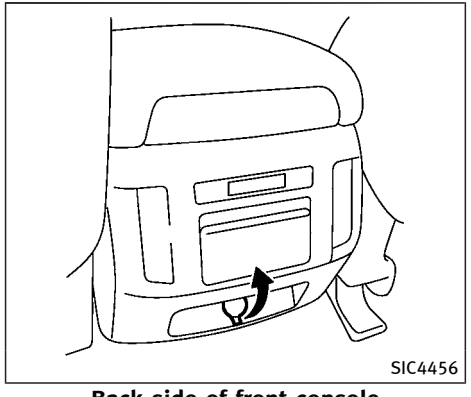
POWER OUTLET

CAUTION

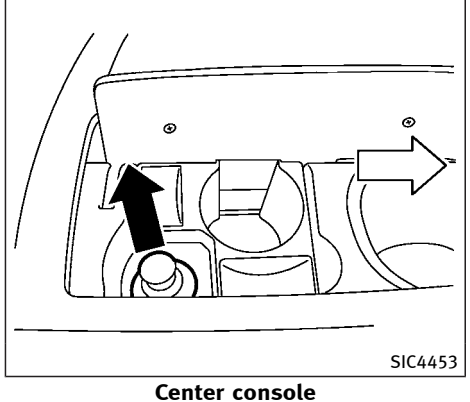
- **Use power outlet with the engine running to avoid discharging the vehicle battery.**
- **Avoid using power outlet when the air conditioner, headlights or rear window defroster is on.**
- **Before inserting or disconnecting a plug, be sure the electrical accessory being used is turned OFF.**
- **When not in use, be sure to close the cap. Do not allow water or any liquid to contact the outlet.**



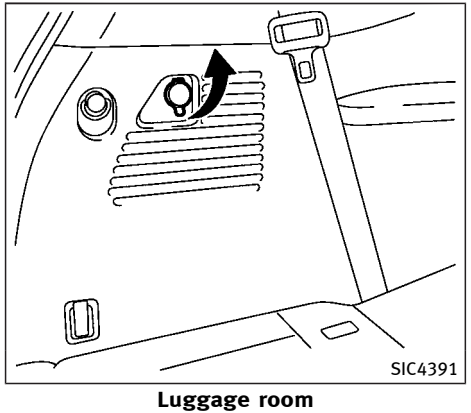
Instrument panel



Back side of front console



Center console



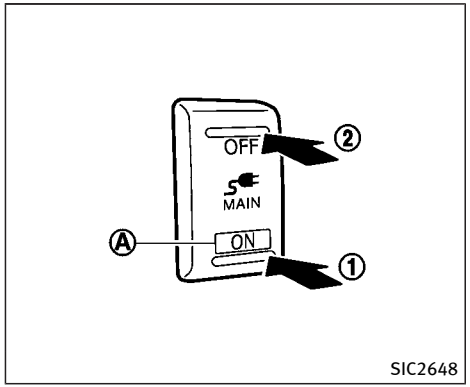
Luggage room

Type A (if so equipped)

The power outlet is used for powering electrical accessories such as cellular telephones.

CAUTION

- **The outlet and plug may be hot during or immediately after use.**
- **Do not use with accessories that exceed a combined power draw of 12 volts, 120W (10A) for all the power outlets. Do not use double adapters or more than one electrical accessory.**
- **This power outlet is not designed for use with a cigarette lighter unit.**
- **Push the plug in as far as it will go. If good contact is not made, the plug may overheat or the internal temperature fuse may blow.**



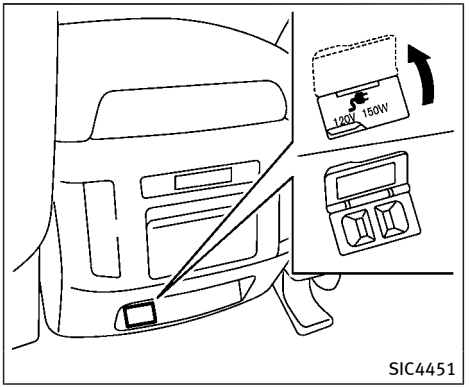
Main switch

Type B (if so equipped)

The power outlet (plug type) is located on the back side of the front console. It can operate when the ignition switch in the ON position and the main switch (located in the console box) is ON.

The specification of this power outlet is for use of a 120 volt, 150W (1.25A) power draw.

To turn on or off the power supply to the outlet, push the ON (1) or OFF (2) side of the main switch. When the switch is turned to the ON position, the indicator light (A) will illuminate.



Power outlet

Pull up the cover and plug in.

After using the power outlet, be sure to turn off the main switch.

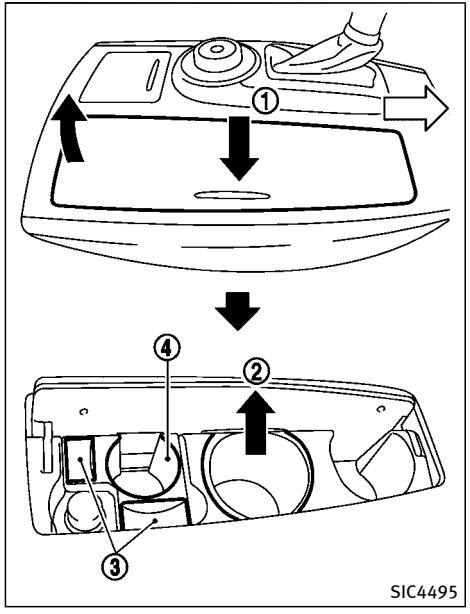
CAUTION

- **Do not use with accessories that exceed a 120 volt, 150W (1.25A) power draw.**
- **Use this power outlet with the engine running. (If the engine is stopped, this could result in a discharged battery.)**

CUP HOLDERS

CAUTION

- **Avoid abrupt starting and braking when the cup holder is being used to prevent spilling the drink. If the liquid is hot, it can scald you or your passenger.**
- **Use only soft cups in the cup holder. Hard objects can injure you in an accident.**
- **Do not recline the rear seatback when you use the cup holders on the rear armrest. Doing so may cause the beverages to spill over, and if they are hot, they may scald the passengers.**



Front

To open the cup holder, push the lid ①.

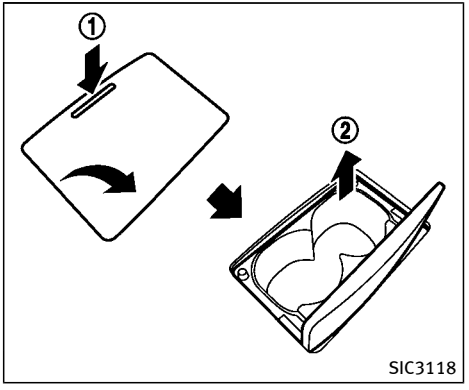
To close, lower the cup holder lid and push it down lightly.

Pull up the inside tray ② and remove it for a larger container or cleaning.

The cap of the bottle can be placed on ③.

A small beverage can be placed in the cup holder ④.

The cup holder is not designed to store personal items.



Type A

2nd row seat

Type A:

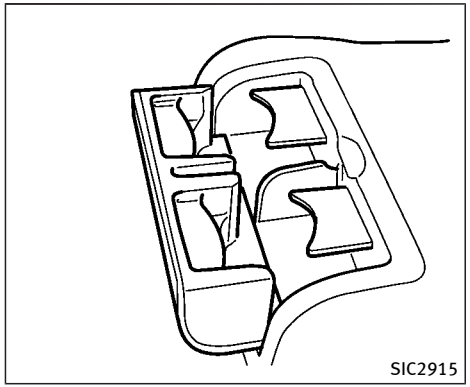
To open the cup holder, push the lid ①.

The flap will be folded down when inserting a large container.

To close, lower the cup holder lid and push it down lightly.

To clean the front cup holder, pull up the inside tray ② and remove it.

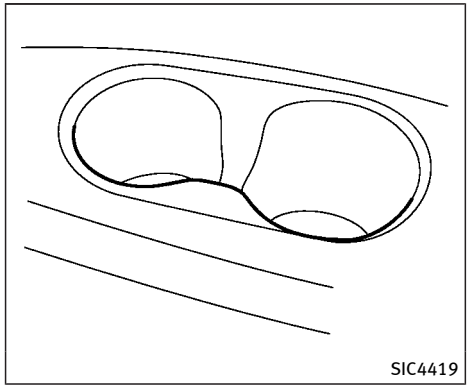
The cup holder is not designed to store personal items.



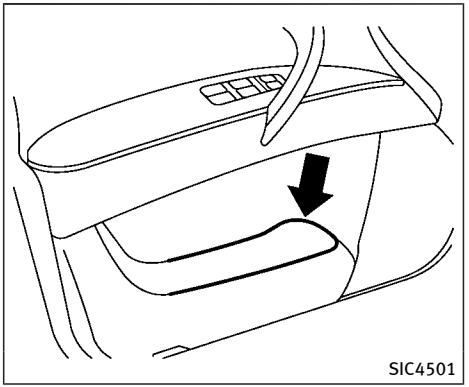
Type B

Type B:

To open the cup holder, pull the lid.



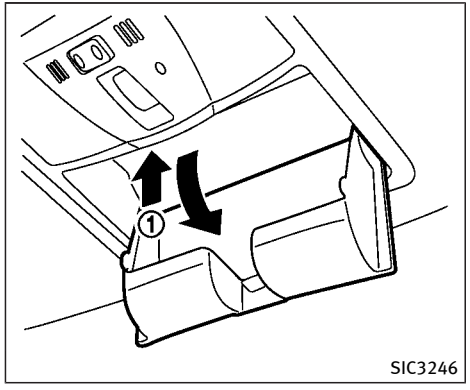
3rd row seat



Soft bottle holder

CAUTION

- **Do not use bottle holder for any other objects that could be thrown about in the vehicle and possibly injure people during sudden braking or an accident.**
- **Do not use bottle holder for open liquid containers.**



SUNGLASSES HOLDER

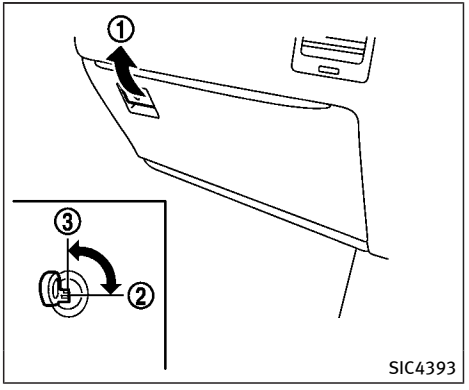
To open the sunglasses holder, push ①.

WARNING

Keep the sunglasses holder closed while driving to avoid obstructing the driver's view and to help prevent an accident.

CAUTION

- **Do not use for anything other than glasses.**
- **Do not leave glasses in the sunglasses holder while parking in direct sunlight. The heat may damage the glasses.**



GLOVE BOX

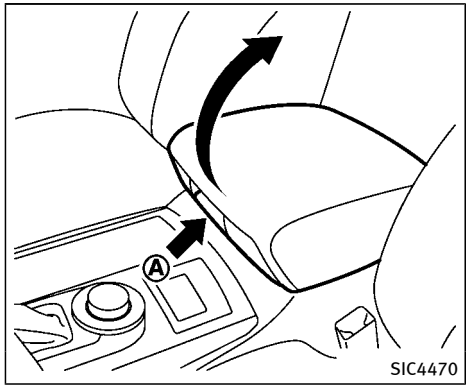
WARNING

Keep glove box lid closed while driving to help prevent injury in an accident or a sudden stop.

To open the glove box, pull the handle ①.

To close, push the lid in until the lock latches.

To lock ②/unlock ③ the glove box, use the mechanical key. For the mechanical key usage, see "Keys" (P.3-2).



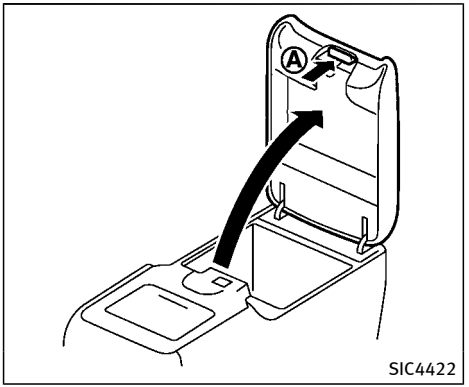
Front

CONSOLE BOX

Front

To open the console box, push up the knob Ⓐ and pull up the lid.

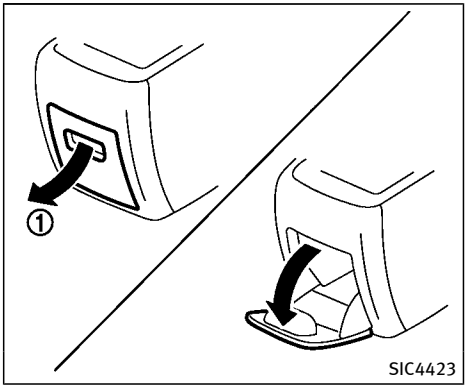
To close, push the lid down until latched.



Rear (if so equipped)

To open the lid, push the knob up Ⓐ and pull up the lid.

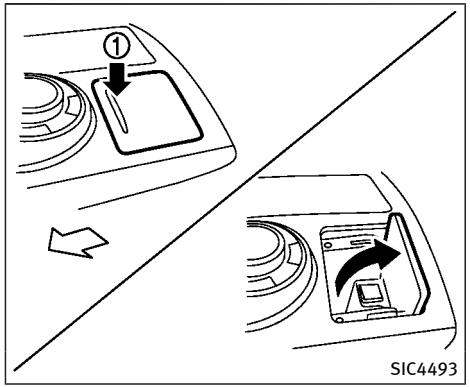
To close, push the lid down until the lock latches.



Pocket:

To open the pocket, pull the knob ①.

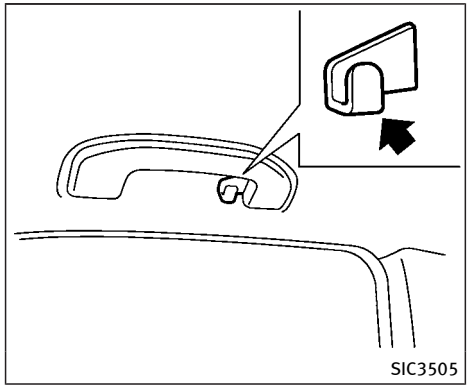
To close, push the lid until the lock latches.



TRAY

To open the tray, push the lid ①. To close, push the lid down.

The USB and/or iPod® connector port is located inside the tray. (See “Audio system” (P.4-53) or “iPod® player operation” (P.4-82).)

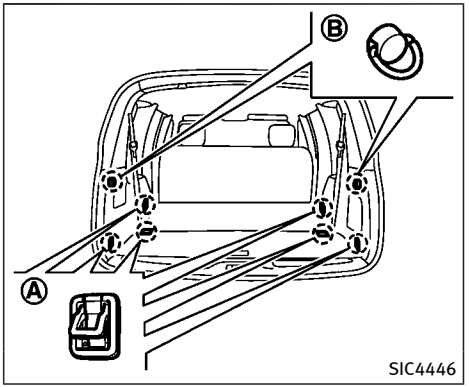


COAT HOOKS

The coat hooks are equipped at the rear assist grips.

CAUTION

Do not place items which are more than 2 lb (1 kg) on the hook.



LUGGAGE HOOKS

WARNING

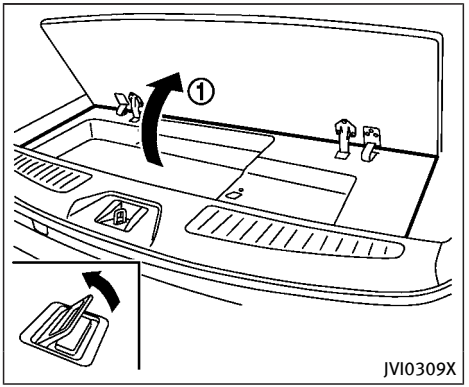
- **Always make sure that the cargo is properly secured. Use the suitable ropes and hooks.**
- **Unsecured cargo can become dangerous in an accident or sudden stop.**
- **Never allow anyone to ride in the luggage area. It is extremely dangerous to ride in a cargo area inside of a vehicle. In a collision, people riding in these areas are more likely to be seriously**

injured or killed.

- Do not allow people to ride in any area of your vehicle that is not equipped with seats and seat belts.
- The child restraint top tether strap may be damaged by contact with items in the cargo area. Secure any items in the cargo area. Your child could be seriously injured or killed in a collision if the top tether strap is damaged.
- Be sure everyone in your vehicle is in a seat and using a seat belt properly.

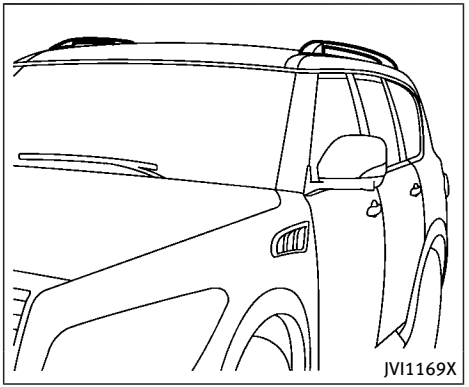
CAUTION

Do not apply a total load of more than 22 lb (10 kg) Ⓐ or 7 lb (3 kg) Ⓑ to the hook.



CARGO FLOOR BOX

Push the handle to open the cargo floor board ①.



ROOF RACK

Always distribute the luggage evenly on the roof rack. Do not load more than 221 lb (100 kg) on the roof rails. Observe the maximum load limit shown on the crossbars or roof carriers when you attach them on the roof rails. It is recommended to visit an INFINITI retailer for crossbar or other equipment information.

Be careful that your vehicle does not exceed the Gross Vehicle Weight Rating (GVWR) or its Gross Axle Weight Rating (GAWR front and rear). The GVWR and GAWR are located on the F.M.V.S.S. or C.V. M.S.S. certification label (located on the

driver's door pillar). For more information regarding GVWR and GAWR, see "Vehicle loading information" (P.10-14).

WARNING

- **Drive extra carefully when the vehicle is loaded at or near the cargo carrying capacity, especially if the significant portion of that load is carried on the roof rack.**
- **Heavy loading of the roof rack has the potential to affect the vehicle stability and handling during sudden or unusual handling maneuvers.**
- **Roof rack load should be evenly distributed.**
- **Do not exceed maximum roof rack load weight capacity.**
- **Properly secure all cargo with ropes or straps to help prevent it from sliding or shifting. In a sudden stop or collision, unsecured cargo could cause personal injury.**

CAUTION

Use care when placing or removing items from the roof rack. If you cannot comfortably lift the items onto the roof rack from the ground, use a ladder or stool.

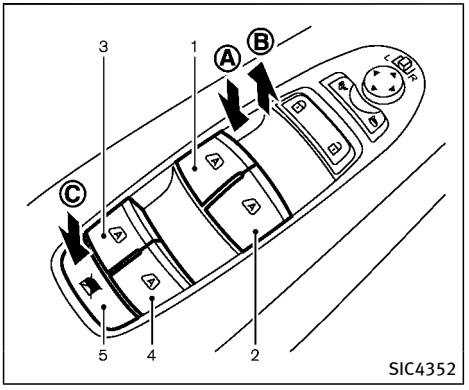
POWER WINDOWS

WARNING

- **Make sure that all passengers have their hands, etc. inside the vehicle while it is in motion and before closing the windows. Use the window lock switch to prevent unexpected use of the power windows.**
- **To help avoid risk of injury or death through unintended operation of the vehicle and or its systems, including entrapment in windows or inadvertent door lock activation, do not leave children, people who require the assistance of others or pets unattended in your vehicle. Additionally, the temperature inside a closed vehicle on a warm day can quickly become high enough to cause a significant risk of injury or death to people and pets.**

The power windows operate when the ignition switch is in the ON position or for about 45 seconds after the ignition switch is pushed to the OFF position. If the driver's or front passenger's door is opened during this period of about 45 seconds, power to

the windows is canceled.



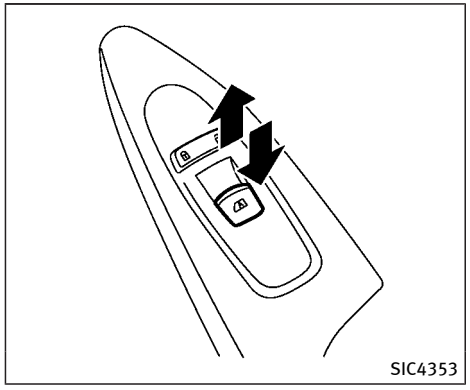
1. Driver side window
2. Front passenger side window
3. Rear left passenger side window
4. Rear right passenger side window
5. Window lock button

Main power window switch (driver's side)

To open or close the window, push down Ⓐ or pull up Ⓑ the switch and hold it. The main switch (driver side switches) will open or close all the windows.

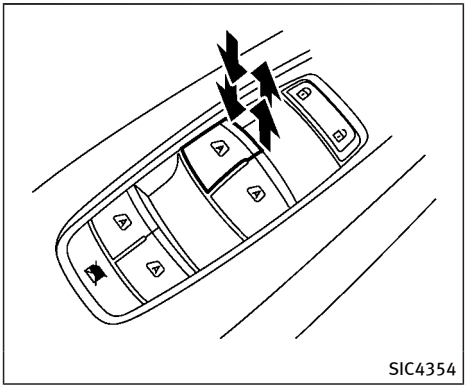
Locking passengers' windows

When the lock button Ⓒ is pushed in, only the driver side window can be opened or closed. Push it in again to cancel.


SIC4353

Passenger side power window switch

The passenger side switch will open or close only the corresponding window. To open or close the window, push down or pull up the switch and hold it.


SIC4354

Automatic operation

To fully open or close the window, completely push down or pull up the switch and release it; it need not be held. The window will automatically open or close all the way. To stop the window, just push or lift the switch in the opposite direction.

A light push or pull on the switch will cause the window to open or close until the switch is released.

Auto reverse function

WARNING

There are some small distances immediately before the closed position which cannot be detected. Make sure that all passengers have their hands, etc., inside the vehicle before closing the window.

If the control unit detects something caught in the window as it is closing, the window will be immediately lowered.

The auto reverse function can be activated when the window is closed by automatic operation when the ignition switch is in the ON position or for 45 seconds after the ignition switch is pushed to the OFF position.

Depending on the environment or driving conditions, the auto reverse function may be activated if an impact or load similar to something being caught in the window occurs.

If the windows do not close automatically

If the power window automatic function (closing only) does not operate properly, perform the following procedure to initialize the power window system.

1. Push the ignition switch to the ON position.
2. Close the door.
3. Open the window completely by operating the power window switch.
4. Pull the power window switch and hold it to close the window, and then hold the switch more than 3 seconds after the window is closed completely.
5. Release the power window switch. Operate the window by the automatic function to confirm the initialization is complete.
6. Perform steps 2 through 5 above for other windows.

If the power window automatic function does not operate properly after performing the procedure above, have your vehicle checked. It is recommended you visit an INFINITI retailer for this service.

WARNING

- **In an accident you could be thrown from the vehicle through an open moonroof. Always use seat belts and child restraints.**
- **Do not allow anyone to stand up or extend any portion of their body out of the moonroof opening while the vehicle is in motion or while the moonroof is closing.**

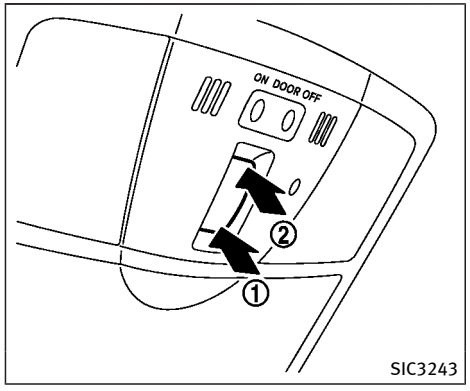
CAUTION

- **Remove water drops, snow, ice or sand from the moonroof before opening.**
- **Do not place any heavy object on the moonroof or surrounding area.**

POWER MOONROOF

The moonroof only operates when the ignition switch is in the ON position.

The moonroof is operational for about 45 seconds, even if the ignition switch is pushed to the OFF position. If the driver's door or the passenger's door is opened during this period of about 45 seconds, power to the moonroof is canceled.



Sunshade

The sunshade will open automatically when the moonroof is opened. However, it must be closed manually.

Tilting the moonroof

To tilt up, first close the moonroof, then push the UP ① side of the moonroof switch and release it; it need not be held. To tilt down the moonroof, push the DOWN ② side.

Sliding the moonroof

To fully open or close the moonroof, push the OPEN ② or CLOSE ① side of the moonroof switch and release it; it need not be held. The roof will automatically open or close all the way. To stop the roof, push the switch once more while it is opening or closing.

Auto reverse function

WARNING

There are some small distances immediately before the closed position which cannot be detected. Make sure that all passengers have their hands, etc., inside the vehicle before closing the moonroof.

If the control unit detects something caught in the moonroof when it is closing, the moonroof will be immediately opened.

The auto reverse function can be activated when the moonroof is closed by automatic operation when the ignition switch is in the ON position or for about 45 seconds after the ignition switch is pushed to the OFF position.

If the moonroof cannot be closed automatically when the auto reverse function activates due to a malfunction, push and hold the CLOSE ① side of the moonroof switch.

Depending on the environment or driving conditions, the auto reverse function may be activated if an impact or load similar to something being caught in the moonroof occurs.

If the moonroof does not operate

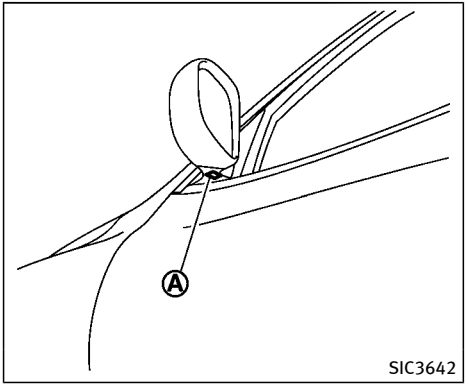
If the moonroof does not operate properly, perform the following procedure to initialize the moonroof operation system.

1. If the moonroof is open, close it fully by repeatedly pushing the CLOSE ① side of the moonroof switch.
2. Push and hold the CLOSE ① side of the moonroof switch to tilt the moonroof up.
3. Release the moonroof switch after the moonroof moves slightly up and down.
4. Push and hold the OPEN ② side of the moonroof switch to fully tilt the moonroof down.
5. Check if the moonroof switch operates normally.

If the moonroof does not operate properly after performing the procedure above, have your vehicle checked. It is recommended you visit an INFINITI retailer for

this service.

WELCOME LIGHT



To activate or deactivate the welcome light function, perform the following procedure.

1. Push the ignition switch to the ON position.
2. Open the driver's side door.
3. Within 20 seconds after the ignition switch is pushed to the ON position, push the door open request switch on the driver's side door handle for more than 5 seconds with the driver's door open.
4. A chime sounds when the setting is completed.

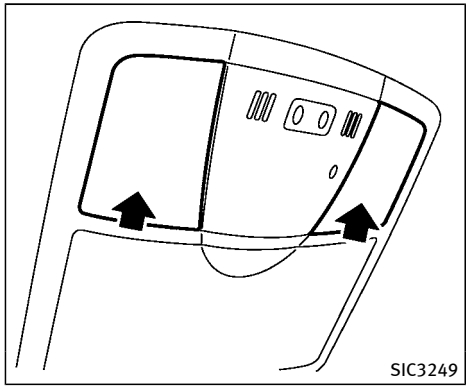
Once the welcome light function is active, the puddle light Ⓐ and the passenger cabin illumination will illuminate when you approach the vehicle with the Intelligent Key (within approximately 3.3 ft (1 m) of the antenna built inside the door handles) and the following conditions are met.

- All doors are closed and locked.
- The ignition switch is in the LOCK or OFF position.
- The Intelligent Key is outside the vehicle.
- The puddle light operates within a set duration.

BATTERY SAVER SYSTEM

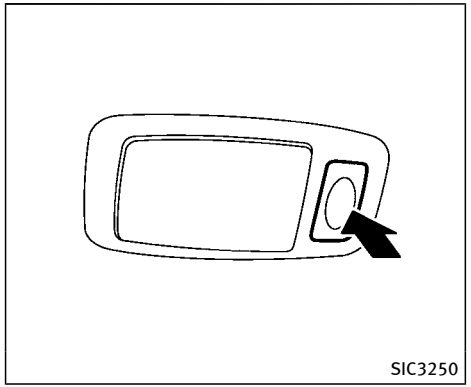
The welcome light function will be deactivated automatically to prevent battery discharge under the following conditions. To activate the welcome light function again, unlock any door.

- If the welcome light function does not operate within a set duration. Note that the duration is set to 9 days as the factory default setting.
- If the welcome light function is activated 15 consecutive times when you approach and leave the vehicle with the Intelligent Key without the doors being unlocked.



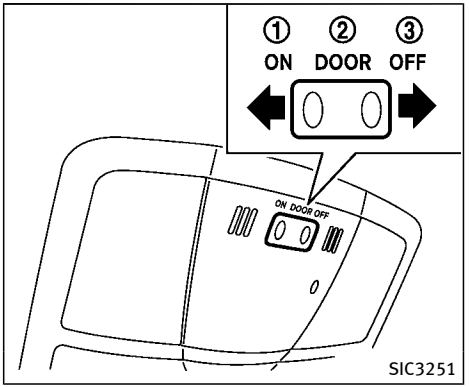
MAP LIGHTS

Push the button as illustrated to turn the light on or off.



REAR PERSONAL LIGHTS

Push the button as illustrated to turn the light on or off.



INTERIOR LIGHT CONTROL SWITCH

The interior light control switch has three positions: ON, DOOR and OFF.

ON position

When the switch is in the ON position ① the map lights and rear personal lights will illuminate.

DOOR position

When the switch is in the DOOR position ②, the map lights and rear personal lights will illuminate under the following conditions:

- ignition switch is switched to the LOCK or OFF position
 — remain on for about 15 seconds.
- doors are unlocked by pushing the UNLOCK button on the Intelligent Key or door handle request switch with the ignition switch in the LOCK or OFF position
 — remain on for about 15 seconds.
- any door is opened and then closed with the ignition switch in the LOCK or OFF position
 — remain on for about 15 seconds.
- any door is opened with the ignition switch in the ACC or ON position
 — remain on while the door is opened. When the door is closed, the lights go off.

The lights will also turn off after a period of time when the lights remain illuminated after the ignition switch has been pushed to the OFF or LOCK position to prevent the battery from becoming discharged.

When the auto interior illumination is set to the OFF position (see “Vehicle information and settings” (P.4-7)), the lights will illuminate under the following condition:

- any door is opened with the ignition switch in any position
 — remain on while the door is opened. When the door is closed, the lights go off.

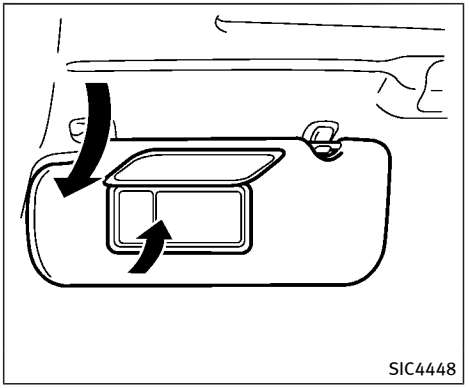
OFF position

When the switch is in the OFF position ③, the lights will not illuminate, regardless of the condition.

CAUTION

Do not use for extended periods of time with the engine stopped. This could result in a discharged battery.

VANITY MIRROR LIGHTS

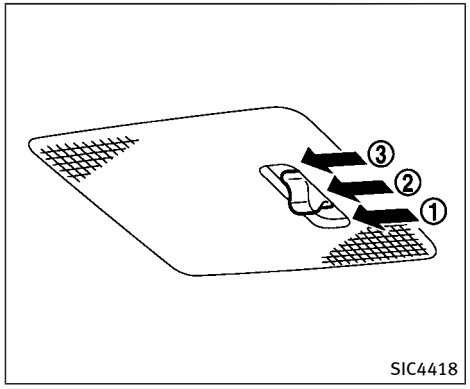


The light on the vanity mirror will turn on when the cover on the vanity mirror is opened.

When the cover is closed, the light will turn off.

The lights will also turn off after a period of time when the lights remain illuminated to prevent the battery from becoming discharged.

CARGO LIGHT



The cargo light switch has three positions: ON ①, center ② and OFF ③.

ON position

When the switch is in the ON position ①, the cargo light will illuminate.

Center position

When the switch is in the center position ②, the cargo light will illuminate when the liftgate is opened.

OFF position

When the switch is in the OFF position ③, the cargo light will not illuminate.

HomeLink® UNIVERSAL TRANSCEIVER

The HomeLink® Universal Transceiver provides a convenient way to consolidate the functions of up to three individual hand-held transmitters into one built-in device.

HomeLink® Universal Transceiver:

- Will operate most Radio Frequency (RF) devices such as garage doors, gates, home and office lighting, entry door locks and security systems.
- Is powered by your vehicle's battery. No separate batteries are required. If the vehicle's battery is discharged or is disconnected, HomeLink® will retain all programming.

When the HomeLink® Universal Transceiver is programmed, retain the original transmitter for future programming procedures (Example: new vehicle purchases). Upon sale of the vehicle, the programmed HomeLink® Universal Transceiver buttons should be erased for security purposes. For additional information, refer to "Programming HomeLink®" (P.2-71).

⚠ WARNING

- **Do not use the HomeLink® Universal Transceiver with any garage door opener that lacks safety stop and reverse features as required by federal safety standards. (These standards became effective for opener models manufactured after April 1, 1982). A garage door opener which cannot detect an object in the path of a closing garage door and then automatically stop and reverse, does not meet current federal safety standards. Using a garage door opener without these features increases the risk of serious injury or death.**
- **During the programming procedure your garage door or security gate will open and close (if the transmitter is within range). Make sure that people or objects are clear of the garage door, gate, etc. that you are programming.**
- **Your vehicle's engine should be turned off while programming the HomeLink® Universal Transceiver. Do not breathe exhaust gases; they contain colorless and odorless carbon monoxide. Carbon monoxide is dangerous. It can cause unconsciousness or death.**

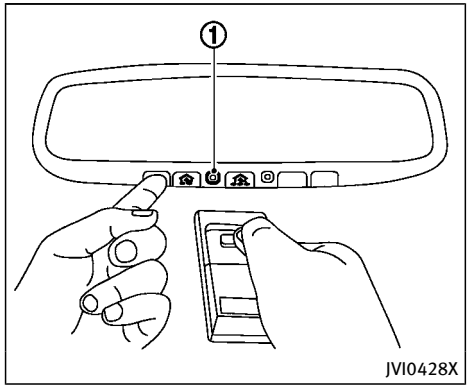
PROGRAMMING HomeLink®

If you have any questions or are having difficulty programming your HomeLink® buttons, refer to the HomeLink® web site at: www.homelink.com or call 1-800-355-3515.

NOTE:

It is also recommended that a new battery be placed in the hand-held transmitter of the device being programmed to HomeLink® for quicker programming and accurate transmission of the radio-frequency.

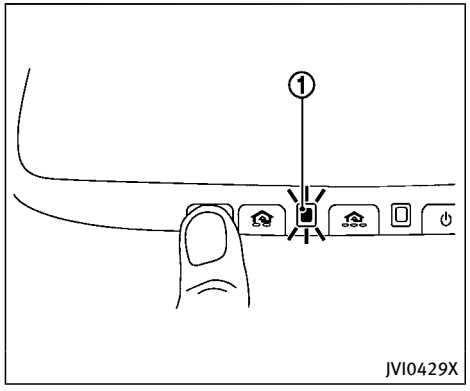
1. Position the end of your hand-held transmitter 1-3 in (26-76 mm) away from the HomeLink® surface, keeping the HomeLink® indicator light ① in view.



2. Using both hands, simultaneously press and hold the desired HomeLink® button and handheld transmitter button. DO NOT release until the HomeLink® indicator light ① flashes slowly and then rapidly. When the indicator light flashes rapidly, both buttons may be released. (The rapid flashing indicates successful programming.)

NOTE:

Some devices to be programmed may require you to replace Step 2 with the cycling procedure noted in the "Programming HomeLink® for Canadian customers and gate openers" (P.2-72).



3. Press and hold the programmed HomeLink® button and observe the indicator light.
 - If the indicator light (1) is solid/continuous, programming is complete and your device should activate when the HomeLink® button is pressed and released.
 - If the indicator light (1) blinks rapidly for two seconds and then turns to a solid/continuous light, continue with Steps 4-6 for a rolling code device. A second person may make the following steps easier. Use a ladder or other device. Do not stand on your vehicle to perform the next steps.
4. At the receiver located on the garage door opener motor in the garage, locate the "learn" or "smart" button (the name and color of the button may vary by manufacturer but it is usually located near where the hanging antenna wire is attached to the unit). If there is difficulty locating the button, reference the garage door opener's manual.
5. Press and release the "learn" or "smart" button.

 NOTE:
 Once the button is pressed, you have approximately 30 seconds to initiate the next step.
6. Return to the vehicle and firmly press and hold the programmed HomeLink® button for two seconds and release. Repeat the "press/hold/release" sequence up to 3 times to complete the programming process. HomeLink® should now activate your rolling code equipped device.
7. If you have any questions or are having difficulty programming your HomeLink® buttons, refer to the HomeLink® web site at: www.homelink.com or call 1-800-355-3515.

PROGRAMMING HomeLink® FOR CANADIAN CUSTOMERS AND GATE OPENERS

Canadian radio-frequency laws require transmitter signals to "time-out" (or quit) after several seconds of transmission – which may not be long enough for HomeLink® to pick up the signal during programming. Similar to this Canadian law, some U.S. gate operators are designed to "time-out" in the same manner.

If you live in Canada or you are having difficulties programming a gate operator or garage door opener by using the "Programming HomeLink®" procedures, replace "Programming HomeLink®" Step 2 with the following:

NOTE:

When programming a garage door opener, etc., unplug the device during the "cycling" process to prevent possible damage to the garage door opener components.

Step 2: Using both hands, simultaneously press and hold the desired HomeLink® button and the hand-held transmitter

button. During programming, your hand-held transmitter may automatically stop transmitting. Continue to press and hold the desired HomeLink® button while you press and re-press ("cycle") your hand-held transmitter every two seconds until the frequency signal has been learned. The HomeLink® indicator light will flash slowly and then rapidly after several seconds upon successful programming. **DO NOT** release until the HomeLink® indicator light flashes slowly and then rapidly. When the indicator light flashes rapidly, both buttons may be released. The rapid flashing indicates successful programming.

Proceed with "Programming HomeLink®" step 3 to complete.

Remember to plug the device back in when programming is completed.

OPERATING THE HomeLink® UNIVERSAL TRANSCEIVER

The HomeLink® Universal Transceiver, after it is programmed, can be used to activate the programmed device. To operate, simply press and release the appropriate programmed HomeLink® Universal Transceiver button. The amber indicator light will illuminate while the signal is being transmitted.

For convenience, the hand-held transmitter of the device may also be used at any time.

PROGRAMMING TROUBLESHOOTING

If the HomeLink® does not quickly learn the hand-held transmitter information:

- replace the hand-held transmitter batteries with new batteries.
- position the hand-held transmitter with its battery area facing away from the HomeLink® surface.
- press and hold both the HomeLink® and hand-held transmitter buttons without interruption.
- position the hand-held transmitter 1-3 in (26-76 mm) away from the HomeLink® surface. Hold the transmitter in that position for up to 15 seconds. If HomeLink® is not programmed within that time, try holding the transmitter in another position - keeping the indicator light in view at all times.

If you have any questions or are having difficulty programming your HomeLink® buttons, refer to the HomeLink® web site at: www.homelink.com or 1-800-355-3515.

CLEARING THE PROGRAMMED INFORMATION

The following procedure clears the programmed information from both buttons. Individual buttons cannot be cleared. However, individual buttons can be reprogrammed, see "Reprogramming a single HomeLink® button" (P.2-73).

To clear all programming

1. Press and hold the two outer HomeLink® buttons until the indicator light begins to flash in approximately 10 seconds. Do not hold for longer than 20 seconds.
2. Release both buttons.

HomeLink® is now in the programming mode and can be programmed at any time beginning with "Programming HomeLink®" - Step 1.

REPROGRAMMING A SINGLE HomeLink® BUTTON

To reprogram a HomeLink® Universal Transceiver button, complete the following.

1. Press and hold the desired HomeLink® button. **Do not** release the button.

2. The indicator light will begin to flash after 20 seconds. Without releasing the HomeLink® button, proceed with “Programming HomeLink®” - Step 1.

For questions or comments, contact HomeLink® at: www.homelink.com or 1-800-355-3515.

The HomeLink® Universal Transceiver button has now been reprogrammed. The new device can be activated by pushing the HomeLink® button that was just programmed. This procedure will not affect any other programmed HomeLink® buttons.

IF YOUR VEHICLE IS STOLEN

If your vehicle is stolen, you should change the codes of any non-rolling code device that has been programmed into HomeLink®. Consult the Owner’s Manual of each device or call the manufacturer or retailer of those devices for additional information.

When your vehicle is recovered, you will need to reprogram the HomeLink® Universal Transceiver with your new transmitter information.

FCC Notice:

For USA:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE:

Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

For Canada:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

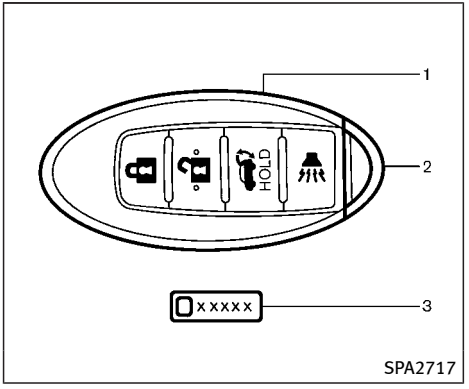
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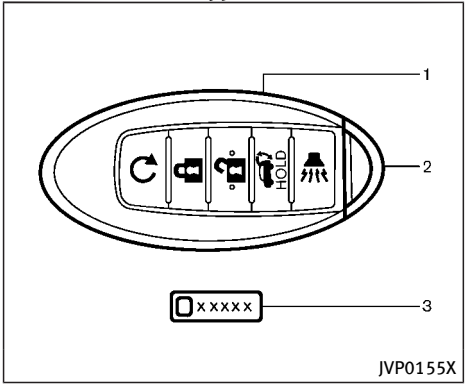
KEYS

A key number plate is supplied with your keys. Record the key number and keep it in a safe place (such as your wallet), not in the vehicle. If you lose your keys, it is recommended you visit an INFINITI retailer for duplicates by using the key number. INFINITI does not record any key numbers so it is very important to keep track of your key number plate.

A key number is only necessary when you have lost all keys and do not have one to duplicate from. If you still have a key, it can be duplicated without knowing the key number.



Type A



Type B

1. Intelligent Key (2)
2. Mechanical key (inside Intelligent Key) (2)
3. Key number plate (1)

INTELLIGENT KEY

Your vehicle can only be driven with the Intelligent Keys which are registered to your vehicle's Intelligent Key system components and INFINITI Vehicle Immobilizer System components. As many as 4 Intelligent Keys can be registered and used with one vehicle. The new keys must be registered by an INFINITI retailer prior to use with the Intelligent Key system and INFINITI Vehicle Immobilizer System of your vehicle. Since the registration process requires erasing all memory in the Intelligent Key components when registering new keys, be sure to take all Intelligent Keys that you have to the INFINITI retailer.

CAUTION

- **Be sure to carry the Intelligent Key with you when driving. The Intelligent Key is a precision device with a built-in transmitter. To avoid damaging it, please note the following.**

— **The Intelligent Key is water resistant; however, wetting may damage the Intelligent Key. If the Intelligent Key gets wet, immediately wipe until it is completely dry.**

— **Do not bend, drop or strike it against another object.**

— **If the outside temperature is below 14°F (–10°C), the battery of the Intelligent Key may not function properly.**

— **Do not place the Intelligent Key for an extended period in a place where temperatures exceed 140°F (60°C).**

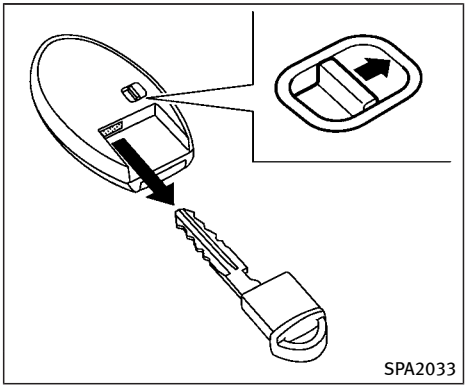
— **Do not change or modify the Intelligent Key.**

— **Do not use a magnet key holder.**

— **Do not place the Intelligent Key near an electric appliance such as a television set or personal computer.**

— **Do not allow the Intelligent Key to come into contact with water or salt water, and do not wash it in a washing machine. This could affect the system function.**

- **If an Intelligent Key is lost or stolen, INFINITI recommends erasing the ID code of that Intelligent Key. This will prevent the Intelligent Key from unauthorized use to unlock the vehicle. For information regarding the erasing procedure, it is recommended you visit an INFINITI retailer.**



Mechanical key

To remove the mechanical key, release the lock knob at the back of the Intelligent Key.

To install the mechanical key, firmly insert it into the Intelligent Key until the lock knob returns to the lock position.

Use the mechanical key to lock or unlock the doors and the glove box.

See “Doors” (P.3-4), “Storage” (P.2-55).

CAUTION

Always carry the mechanical key installed in the Intelligent Key.

VALET HAND-OFF

When you have to leave a key with a valet, give them the Intelligent Key itself and keep the mechanical key with you to protect your belongings.

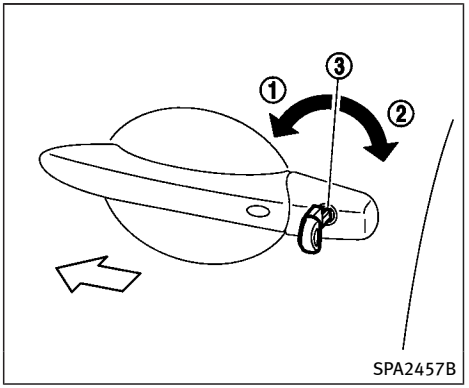
To prevent the glove box from being opened during valet hand-off, follow the procedures below.

1. Remove the mechanical key from the Intelligent Key.
2. Lock the glove box with the mechanical key.
3. Hand the Intelligent Key to the valet, keeping the mechanical key in your pocket or bag for insertion into the Intelligent Key when you retrieve your vehicle.

See “Storage” (P.2-55).

WARNING

- **Always have the doors locked while driving. Along with the use of seat belts, this provides greater safety in the event of an accident by helping to prevent persons from being thrown from the vehicle. This also helps keep children and others from unintentionally opening the doors, and will help keep out intruders.**
- **Before opening any door, always look for and avoid oncoming traffic.**
- **To help avoid risk of injury or death through unintended operation of the vehicle and or its systems, including entrapment in windows or inadvertent door lock activation, do not leave children, people who require the assistance of others or pets unattended in your vehicle. Additionally, the temperature inside a closed vehicle on a warm day can quickly become high enough to cause a significant risk of injury or death to people and pets.**



LOCKING WITH MECHANICAL KEY

The power door lock system allows you to lock or unlock all doors simultaneously using the mechanical key.

- Turning the driver’s door key cylinder to the front of the vehicle ① will lock all doors.
- Turning the driver’s door key cylinder once to the rear of the vehicle ② will unlock the driver’s door. After returning the key to the neutral position ③, turning it to the rear again within 5 seconds will unlock all doors.

- You can switch the lock system to the mode that allows you to open all the doors when the key is turned once. (See “How to use SETTING button” (P.4-12).)

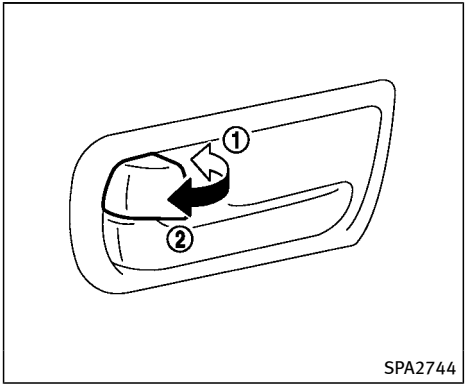
OPENING AND CLOSING WINDOWS WITH THE MECHANICAL KEY

The driver’s door key operation also allows you to open and close all door windows.

To open the windows, turn the driver’s door key cylinder to the rear of the vehicle for **longer than 1 second.** The door is unlocked and the window keeps opening while turning the key.

This function can also be performed by pushing and holding the door UNLOCK button of the Intelligent Key. (See “Remote keyless entry system” (P.3-15).)

To close the windows, turn the driver’s door key cylinder to the front of the vehicle for **longer than 1 second**. The door is locked and the window keeps closing while turning the key.



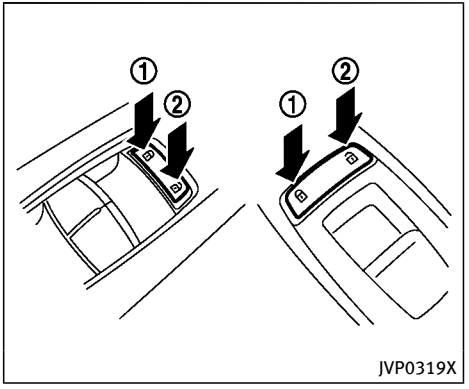
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LOCKING WITH INSIDE LOCK KNOB

To lock the door individually, move the inside lock knob to the lock position ①.

To unlock, move the inside lock knob to the unlock position ②.

Be sure not to leave the Intelligent Key inside the vehicle.



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LOCKING WITH POWER DOOR LOCK SWITCH

Operating the power door lock switch will lock or unlock all the doors. The switches are located on the driver’s and front passenger’s door armrests.

To lock the doors, push the power door lock switch to the lock position ①.

Be sure not to leave the Intelligent Key inside the vehicle.

To unlock the doors including the fuel-filler door, push the power door lock switch to the unlock position ②.

Lockout protection

When the power door lock switch (driver or front passenger) is moved to the lock position with any door open, all doors will lock and unlock automatically. With the Intelligent Key left in the vehicle and any door open, all doors will unlock automatically and a chime will sound after the door is closed.

These functions help to prevent the Intelligent Key from being accidentally locked inside the vehicle.

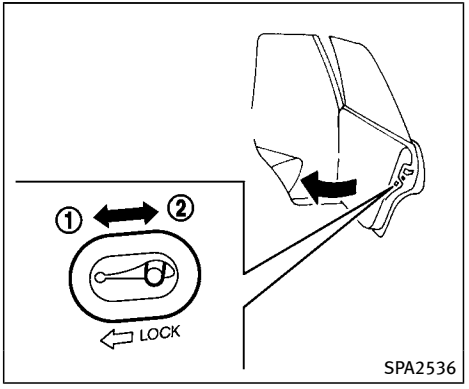
AUTOMATIC DOOR LOCKS

- All doors lock automatically when the vehicle speed reaches 15 MPH (24 km/h).
- All doors unlock automatically when the ignition switch is placed in the OFF position.

The automatic unlock function can be deactivated or activated. To deactivate or activate the automatic door unlock system, perform the following procedure:

1. Close all doors.
2. Place the ignition switch in the ON position.
3. Within 20 seconds of performing Step 2, push and hold the power door lock switch to the position (UNLOCK) for more than 5 seconds.
4. When activated, the hazard indicator will flash twice. When deactivated, the hazard indicator will flash once.
5. The ignition switch must be placed in the OFF and ON position again between each setting change.

When the automatic door unlock system is deactivated, the doors do not unlock when the ignition switch is placed in the OFF position. To unlock the door manually, use the inside lock knob or the power door lock switch (driver's or front passenger's side).



CHILD SAFETY REAR DOOR LOCK

Child safety rear door locks help prevent doors from being opened accidentally, especially when small children are in the vehicle.

When the levers are in the lock position ①, the rear doors can be opened only from the outside.

To disengage, move the levers to the unlock position ②.

⚠ WARNING

- **Radio waves could adversely affect electric medical equipment. Those who use a pacemaker should contact the electric medical equipment manufacturer for the possible influences before use.**
- **The Intelligent Key transmits radio waves when the buttons are pushed. The FAA advises that the radio waves may affect aircraft navigation and communication systems. Do not operate the Intelligent Key while on an airplane. Make sure the buttons are not operated unintentionally when the unit is stored during a flight.**

The Intelligent Key system can operate all the door locks using the remote controller function or pushing the request switch on the vehicle without taking the key out from a pocket or purse. The operating environment and/or conditions may affect the Intelligent Key system operation.

Be sure to read the following before using the Intelligent Key system.

⚠ CAUTION

- **Be sure to carry the Intelligent Key with you when operating the vehicle.**
- **Never leave the Intelligent Key in the vehicle when you leave the vehicle.**

The Intelligent Key is always communicating with the vehicle as it receives radio waves. The Intelligent Key system transmits weak radio waves. Environmental conditions may interfere with the operation of the Intelligent Key system under the following operating conditions.

- When operating near a location where strong radio waves are transmitted, such as a TV tower, power station and broadcasting station.
- When in possession of wireless equipment, such as a cellular telephone, transceiver, and CB radio.
- When the Intelligent Key is in contact with or covered by metallic materials.
- When any type of radio wave remote control is used nearby.
- When the Intelligent Key is placed near an electric appliance such as a personal computer.
- When the vehicle is parked near a parking meter.

In such cases, correct the operating conditions before using the Intelligent Key function or use the mechanical key.

Although the life of the battery varies depending on the operating conditions, the battery's life is approximately 2 years. If the battery is discharged, replace it with a new one.

Since the Intelligent Key is continuously receiving radio waves, if the key is left near equipment which transmits strong radio waves, such as signals from a TV and personal computer, the battery life may become shorter.

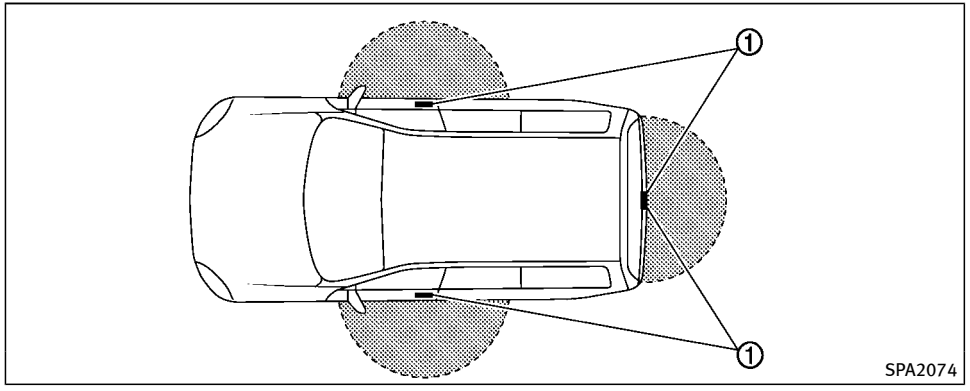
For information regarding replacement of a battery, see "Intelligent Key battery replacement" (P.8-21).

As many as 4 Intelligent Keys can be registered and used with one vehicle. For information about the purchase and use of additional Intelligent Keys, contact an INFINITI retailer.

⚠ CAUTION

- **Do not allow the Intelligent Key, which contains electrical components, to come into contact with water or salt water. This could affect the system function.**
- **Do not drop the Intelligent Key.**
- **Do not strike the Intelligent Key sharply against another object.**
- **Do not change or modify the Intelligent Key.**
- **Wetting may damage the Intelligent Key. If the Intelligent Key gets wet, immediately wipe until it is completely dry.**
- **If the outside temperature is below 14°F (–10°C), the battery of the Intelligent Key may not function properly.**
- **Do not place the Intelligent Key for an extended period in an area where temperatures exceed 140°F (60°C).**
- **Do not attach the Intelligent Key with a key holder that contains a magnet.**
- **Do not place the Intelligent Key near equipment that produces a magnetic field, such as a TV, audio equipment and personal computers.**

If an Intelligent Key is lost or stolen, INFINITI recommends erasing the ID code of that Intelligent Key from the vehicle. This may prevent the unauthorized use of the Intelligent Key to operate the vehicle. For information regarding the erasing procedure, it is recommended that you contact an INFINITI retailer.



INTELLIGENT KEY OPERATING RANGE

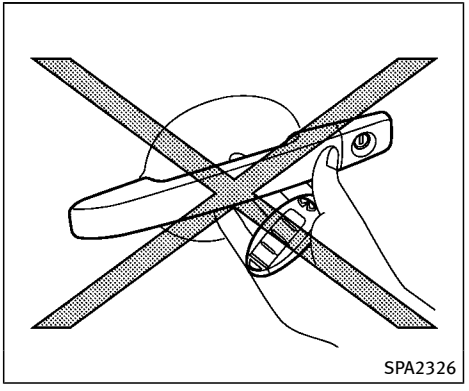
The Intelligent Key functions can only be used when the Intelligent Key is within the specified operating range from the request switch ①.

When the Intelligent Key battery is discharged or strong radio waves are present near the operating location, the Intelligent Key system's operating range becomes narrower, and the Intelligent Key may not function properly.

The operating range is within 31.50 in (80 cm) from each request switch ①.

If the Intelligent Key is too close to the door glass, handle or rear bumper the request switches may not function.

When the Intelligent Key is within the operating range, it is possible for anyone who does not carry the Intelligent Key to push the request switch to lock/unlock the doors.

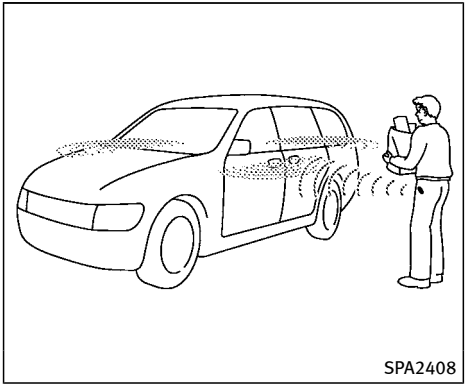


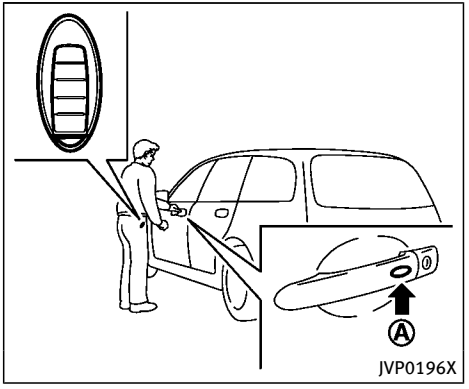
DOOR LOCKS/UNLOCKS PRECAUTION

- Do not push the door handle request switch with the Intelligent Key held in your hand as illustrated. The close distance to the door handle will cause the Intelligent Key system to have difficulty recognizing that the Intelligent Key is outside the vehicle.
- After locking with the door handle request switch, verify the doors are securely locked by testing them.
- To prevent the Intelligent Key from being left inside the vehicle, make sure

you carry the key with you and then lock the doors.

- Do not pull the door handle before pushing the door handle request switch. The door will be unlocked but will not open. Release the door handle once and pull it again to open the door.
- The Intelligent Key system (opening/closing doors with the door handle request switch) can be set to remain inactive. (See “Vehicle information and settings” (P.4-7).)

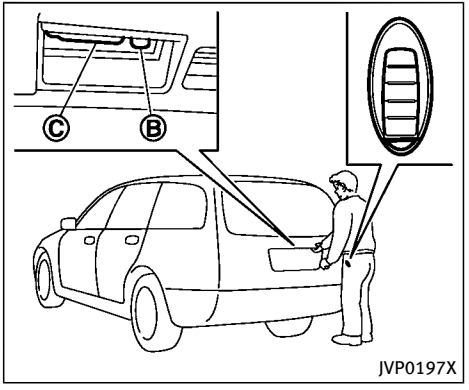

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INTELLIGENT KEY OPERATION

You can lock or unlock the doors without taking the key out from your pocket or bag.



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When you carry the Intelligent Key with you, you can lock or unlock all doors by pushing the door handle request switch (driver's or front passenger's) Ⓐ or the liftgate request switch Ⓑ within the range of operation.

When you lock or unlock the doors or the liftgate, the hazard indicator will flash and the horn (or the outside chime) will sound as a confirmation. For details, see "Setting hazard indicator and horn mode" (P.3-17).

Welcome light and farewell light function

When you lock or unlock the doors including the liftgate, the parking lights, tail lights and the license plate light will illuminate for a period of time. The welcome light and farewell light function can be disabled. For information about disabling the welcome light and farewell light function, it is recommended you see an INFINITI retailer.

Locking doors and fuel-filler door

1. Move the shift lever to the P (Park) position, push the ignition switch to the OFF position and make sure you carry the Intelligent Key with you.*1
2. Close all the doors.*2
3. Push the door handle request switch (driver's or front passenger's) Ⓐ or the liftgate request switch Ⓑ while carrying the Intelligent Key with you.*3
4. All the doors and fuel-filler door will lock.
5. The hazard indicator flashes twice and the outside chime sounds twice.

*1: Doors will lock with the Intelligent Key while the ignition switch is in the ACC or ON position.

*2: Doors will not lock with the Intelligent Key while any door is open.

*3: Doors will not lock by pushing the door handle request switch with the Intelligent Key inside the vehicle.

However, when an Intelligent Key is inside the vehicle, doors can be locked with another registered Intelligent Key.

CAUTION

- **After locking the doors using the request switch, make sure that the doors have been securely locked by operating the door handles.**
- **When locking the doors using the request switch, make sure to have the Intelligent Key in your possession before operating the request switch to prevent the Intelligent Key from being left in the vehicle.**
- **The request switch is operational only when the Intelligent Key has been detected by the Intelligent Key system.**

Lockout protection:

To prevent the Intelligent Key from being accidentally locked in the vehicle, lockout protection is equipped with the Intelligent Key system.

When the driver's side door is open, the doors are locked, and then the Intelligent Key is put inside the vehicle and all the doors are closed; the lock will automatically unlock and the door buzzer sounds.

NOTE:

The doors may not lock when the Intelligent Key is in the same hand that is operating the request switch to lock the door. Put the Intelligent Key in a purse, pocket or your other hand.

CAUTION

The lockout protection may not function under the following conditions:

- **When the Intelligent Key is placed on top of the instrument panel.**
- **When the Intelligent Key is placed inside the glove box or a storage bin.**
- **When the Intelligent Key is placed inside the door pockets.**
- **When the Intelligent Key is placed inside or near metallic materials.**

Unlocking doors and fuel-filler door

1. Push the door handle request switch (driver's or front passenger's) Ⓐ or the liftgate request switch Ⓑ once while carrying the Intelligent Key with you.

 When you approach the vehicle with the Intelligent Key, the puddle light and the passenger cabin illumination will illuminate and stay on for a short period of time. (See "Welcome light" (P.2-67).)
2. The hazard indicator flashes once and outside chime sounds once. The corresponding door will unlock.

 The fuel-filler door will also unlock when the driver's door handle request switch is pushed.
3. Push the door handle request switch again within 60 seconds.
4. The hazard indicator flashes once and outside chime sounds once again. All the doors will unlock.

The liftgate can be unlocked and opened by pushing the liftgate opener switch. See "Liftgate" (P.3-22).

All doors will be locked automatically unless one of the following operations is performed within 1 minute after pushing the request switch while the doors are locked. If during this 1-minute time period, the request switch is pushed, all doors will be locked automatically after another 1 minute.

- Opening any door
- Pushing the ignition switch

Power liftgate open

1. Carry the Intelligent Key.
2. Push the power liftgate opener switch Ⓒ.
3. The liftgate will unlock and automatically open.
4. The hazard indicator flashes 4 times and the outside chime sounds.

BATTERY SAVER SYSTEM

When all the following conditions are met for a period of time, the battery saver system will cut off the power supply to prevent battery discharge.

- The ignition switch is in the ACC position, and
- All doors are closed, and
- The shift lever is in the P (Park) position.

WARNING SIGNALS

To help prevent the vehicle from moving unexpectedly by erroneous operation of the Intelligent Key listed on the following chart or to help prevent the vehicle from being stolen, chime or beep sounds inside and outside the vehicle and a warning displays in the vehicle information display.

When a chime or beep sounds or the warning displays, be sure to check the vehicle and Intelligent Key.

See "Troubleshooting guide" (P.3-13) and "Vehicle information display" (P.2-22).

TROUBLESHOOTING GUIDE

Symptom		Possible cause	Action to take
When pushing the ignition switch to stop the engine	The SHIFT P warning appears on the display and the inside warning chime sounds continuously or for a few seconds.	The shift lever is not in the P (Park) position.	Shift the shift lever to the P (Park) position.
When shifting the shift lever to the P (Park) position.	The inside warning chime sounds continuously.	The ignition switch is in the ACC or ON position.	Push the ignition switch to the OFF position.
When opening the driver's door to get out of the vehicle	The inside warning chime sounds continuously.	The ignition switch is in the ACC position.	Push the ignition switch to the OFF position.
When closing the door after getting out of the vehicle	The NO KEY warning appears on the display, the outside chime sounds 3 times and the inside warning chime sounds for a few seconds.	The ignition switch is in the ACC or ON position.	Push the ignition switch to the OFF position.
	The SHIFT P warning appears on the display and the outside chime sounds continuously.	The ignition switch is in the ACC or OFF position and the shift lever is not in the P (Park) position.	Move the shift lever to the P (Park) position and push the ignition switch to the OFF position.
When closing the door with the inside lock knob turned to LOCK	The outside chime sounds for a few seconds and all the doors unlock.	The Intelligent Key is inside the vehicle or cargo area.	Carry the Intelligent Key with you.
When pushing the request switch or the LOCK button on the Intelligent Key to lock the door	The outside chime sounds for a few seconds.	The Intelligent Key is inside the vehicle.	Carry the Intelligent Key with you.
		A door is not closed securely.	Close the door securely.
When pushing the door handle request switch to lock the door	The outside chime sounds for a few seconds.	The Intelligent Key is inside the vehicle or cargo area.	Carry the Intelligent Key with you.
		A door is not closed securely.	Close the door securely.
		The door handle request switch is pushed before the door is closed.	Push the door handle request switch after the door is closed.
When pushing the ignition switch to start the engine	The Intelligent Key battery indicator appears on the display.	The battery charge is low.	Replace the battery with a new one. (See "Battery" (P.8-12).)
	The NO KEY warning appears on the display and the inside warning chime sounds for a few seconds.	The Intelligent Key is not in the vehicle.	Carry the Intelligent Key with you.

Symptom		Possible cause	Action to take
When pushing the ignition switch	The Intelligent Key system warning light in the meter illuminates in yellow.	It warns of a malfunction with the Intelligent Key system.	It is recommended that you contact an INFINITI retailer.

WARNING

The Intelligent Key transmits radio waves when the buttons are pushed. The FAA advises that radio waves may affect aircraft navigation and communication systems. Do not operate the Intelligent Key while on an airplane. Make sure the buttons are not operated unintentionally when the unit is stored for a flight.

It is possible to lock/unlock all doors, fuel-filler door, activate the panic alarm and open the windows by pushing the buttons on the Intelligent Key from outside the vehicle.

Before locking the doors, make sure the Intelligent Key is not left in the vehicle.

The LOCK/UNLOCK button on the Intelligent Key can operate at a distance of approximately 33 ft (10 m) from the vehicle. (The effective distance depends upon the conditions around the vehicle.)

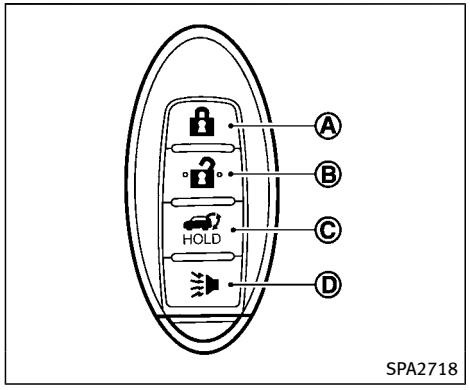
As many as 4 Intelligent Keys can be used with one vehicle. For information concerning the purchase and use of additional Intelligent Keys, contact an INFINITI retailer.

The lock and unlock buttons on the Intelligent Key will not operate when:

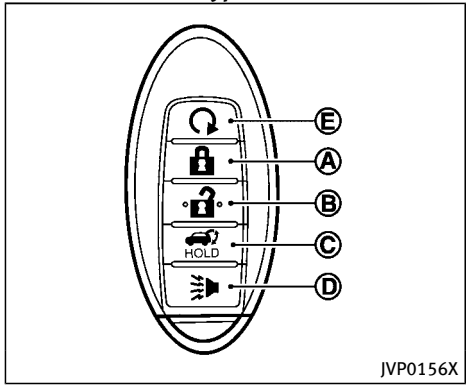
- the distance between the Intelligent Key and the vehicle is over 33 ft (10 m).
- the Intelligent Key battery runs down.

After locking with the remote keyless entry function, pull the door handle to make sure the doors are securely locked.

The LOCK/UNLOCK operating range varies depending on the environment. To securely operate the lock and unlock buttons, approach the vehicle to about 3 ft (1 m) from the door.



Type A



Type B

Ⓐ LOCK button
Ⓑ UNLOCK button
Ⓒ Power liftgate button
Ⓓ PANIC button
Ⓔ Remote engine start button

HOW TO USE REMOTE KEYLESS ENTRY SYSTEM

When you lock or unlock the doors or the liftgate, the hazard indicator will flash and the horn (or the outside chime) will sound as a confirmation. For details, see “Setting hazard indicator and horn mode” (P.3-17).

Locking doors and fuel-filler door

1. Move the shift lever to the P (Park) position, push the ignition switch to the OFF position and make sure you carry the Intelligent Key with you.*
2. Close all the doors and the liftgate.
3. Push the LOCK button Ⓐ on the Intelligent Key.
4. All the doors, the liftgate and fuel-filler door will lock.
5. The hazard indicator flashes twice and the horn chirps once.

*: Doors will lock with the Intelligent Key while the ignition switch is in the ACC or ON position.

Unlocking doors and fuel-filler door

1. Push the UNLOCK button Ⓑ on the Intelligent Key once.
2. The hazard indicator flashes once. The driver’s door and fuel-filler door will unlock.

 The puddle light and the passenger cabin illumination will illuminate and stay on for a short period of time.
3. Push the UNLOCK button on the Intelligent Key again within 60 seconds.
4. The hazard indicator flashes once again. All the doors will unlock.

All doors will be locked automatically unless one of the following operations is performed within 1 minute after pushing the UNLOCK button on the Intelligent Key while the doors are locked. If during this 1-minute time period, the UNLOCK button on the Intelligent Key is pushed, all doors will be locked automatically after another 1 minute.

- Opening any door
- Pushing the ignition switch

Opening windows

To open the windows, push the door UNLOCK button on the Intelligent Key for **about 3 seconds** after the door is unlocked.

To stop opening, release the UNLOCK button.

Window cannot be closed using the Intelligent Key.

The door windows can be opened or closed by turning the mechanical key in a door lock. (See “Doors” (P.3-4).)

Opening/closing liftgate

1. Push the power liftgate button Ⓒ for more than 1 second.
2. The liftgate will automatically open.

The hazard indicator flashes 4 times and the outside chime sounds for approximately 3 seconds.

To close the liftgate, push the power liftgate button for more than 1 second.

The liftgate will automatically close.

If the button is pushed while the liftgate is being opened or closed, the liftgate will reverse.

Using panic alarm

If you are near your vehicle and feel threatened, you may activate the alarm to call attention as follows:

1. Push the PANIC button Ⓓ on the Intelligent Key for **more than 1 second.**
2. The theft warning alarm and headlights will stay on for 25 seconds.
3. The panic alarm stops when:
 - It has run for 25 seconds, or
 - Any of the buttons on the Intelligent Key are pushed. (Note: Panic button or power liftgate button should be pushed for more than 1 second.)

Remote engine start (if so equipped)

The remote engine start button Ⓔ is on the Intelligent Key if the vehicle has remote engine start function. This function allows the engine to start from outside the vehicle. See “Remote engine start” (P.3-19).

Setting hazard indicator and horn mode

This vehicle is set in hazard indicator and horn mode when you first receive the vehicle.

In hazard indicator and horn mode, when the LOCK button is pushed, the hazard indicator flashes twice and the horn chirps once. When the UNLOCK button is pushed, the hazard indicator flashes once.

If horns are not necessary, the system can be switched to the hazard indicator mode.

In hazard indicator mode, when the LOCK button is pushed, the hazard indicator flashes twice. When the UNLOCK button is pushed, neither the hazard indicator nor the horn operates.

Hazard indicator and horn mode:

	DOOR LOCK	DOOR UNLOCK
Intelligent Key system (Using door handle request switch)	HAZARD - **twice** OUTSIDE CHIME - **twice**	HAZARD - **once** OUTSIDE CHIME - **once**
Remote keyless entry system (Using or button)	HAZARD - **twice** HORN - **once**	HAZARD - **once** HORN - none

Hazard indicator mode:

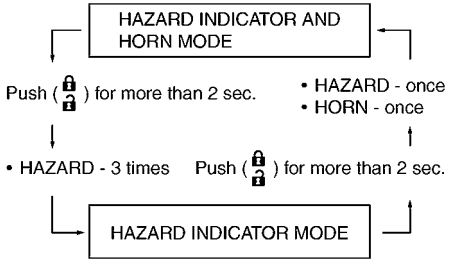
	DOOR LOCK	DOOR UNLOCK
Intelligent Key system (Using door handle request switch)	HAZARD - **twice**	HAZARD - none
Remote keyless entry system (Using or button)	HAZARD - **twice**	HAZARD - none

Switching procedure:

Push the LOCK and UNLOCK buttons on the Intelligent Key simultaneously for more than 2 seconds to switch the mode from one to the other.

When pushing the buttons to set the hazard indicator mode, the hazard indicator flashes 3 times.

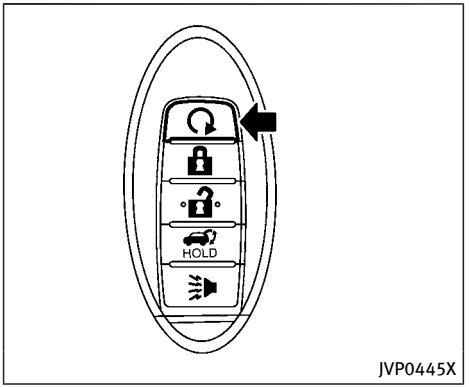
When pushing the buttons to set the hazard indicator and horn mode, the hazard indicator flashes once and the horn chirps once.



REMOTE ENGINE START (if so equipped)

WARNING

To avoid risk of injury or death, do not use the remote engine start function when the vehicle is in an enclosed area such as a garage.



The remote engine start button is on the Intelligent Key if the vehicle has remote engine start function. This function allows the engine to start from outside the vehicle.

Some systems, such as the air conditioner system, will turn on during a remote start, if the system was on the last time the ignition switch was turned off.

Laws in some local communities may restrict the use of remote starters. For example, some laws require a person using remote start to have the vehicle in view. Check local regulations for any requirements.

Other conditions may affect the remote engine start function. See “Conditions the remote engine start will not work” (P.3-21).

Other conditions can affect the performance of the Intelligent Key transmitter. See “Intelligent Key system” (P.3-7) for additional information.

REMOTE ENGINE START OPERATING RANGE

The remote engine start function can only be used when the Intelligent Key is within the specified operating range from the vehicle.

When the Intelligent Key battery is discharged or other strong radio wave sources are present near the operating location, the Intelligent Key operating range becomes narrower, and the Intelligent Key may not function properly.

The remote engine start operating range is approximately 197 ft (60 m) from the vehicle.

REMOTE STARTING THE ENGINE

To use the remote start function to start the engine, perform the following:

1. Aim the Intelligent Key at the vehicle.
2. Push the “LOCK” button to lock all doors.
3. Within 5 seconds push and hold the remote engine start button until the turn signal lights flash and the tail lights illuminate. If the vehicle is not within view, push and hold the remote engine start button for at least 2 seconds.

The following events will occur when the engine starts:

- The front parking lights will turn on and remain on as long as the engine is running.
- The doors will be locked and the air conditioner system may turn on.
- The engine will continue to run for about 10 minutes. Repeat the steps to extend the time for an additional 10 minutes. See “Extending engine run time” (P.3-20).

Depress and hold the brake pedal, then place the ignition switch in the ON position before driving. For further instructions, see “Driving the vehicle” (P.5-17).

EXTENDING ENGINE RUN TIME

The remote engine start function can be extended one time by performing the steps listed in “Remote starting the engine” (P.3-20). Run time will be calculated as follows:

- The first 10 minute run time will start when the remote engine start function is performed.
- The second 10 minutes will start immediately when the remote engine start function is performed. For example, if the engine has been running for 5 minutes, and 10 minutes are added, the engine will run for a total of 15 minutes.
- Extending engine run time will count towards the two remote start limit.

A maximum of two remote starts, or a single start with an extension, are allowed between ignition cycles.

The ignition switch must be cycled to the ON position and then back to the OFF position before the remote engine start procedure can be used again.

CANCELING A REMOTE START

To cancel a remote start, perform one of the following:

- Aim the Intelligent Key at the vehicle and push and hold the remote engine start button until the front parking lights turn off.
- Turn on the hazard indicator flashers.
- Cycle the ignition switch ON and then OFF.
- The extended engine run time has expired.
- The first 10 minute timer has expired.
- The engine hood has been opened.
- The shift lever is moved out of the P (Park) position.
- The theft alarm sounds due to illegal entry into the vehicle.
- The ignition switch is pushed without an Intelligent Key in the vehicle.
- The ignition switch is pushed with an Intelligent Key in the vehicle but the brake pedal is not depressed.

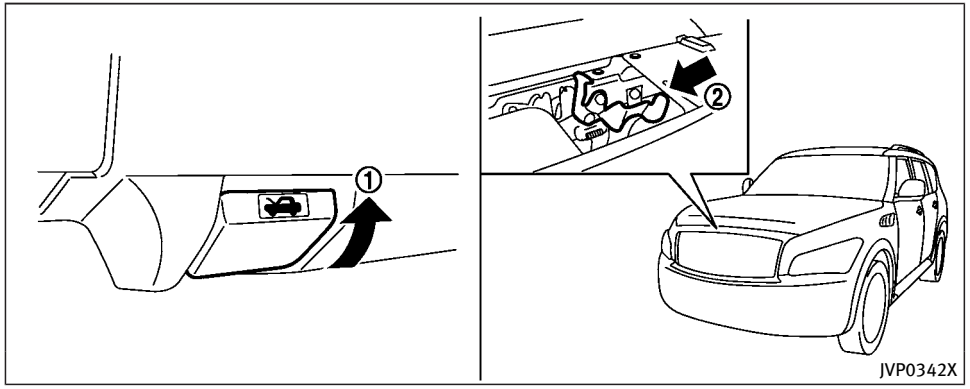
CONDITIONS THE REMOTE ENGINE START WILL NOT WORK

The remote engine start will not operate if any of the following conditions are present:

- The ignition switch is placed in the ON position.
- The hood is not securely closed.
- The hazard indicator flashers are on.
- The engine is still running. The engine must be completely stopped. Wait at least 6 seconds if the engine goes from running to off. This is not applicable when extending engine run time.
- The remote engine start button is not pushed and held for at least 2 seconds.
- The remote engine start button is not pushed and held within 5 seconds of pushing the “LOCK” button.
- The brake pedal is depressed.
- The doors are not closed and locked.
- The liftgate is open.
- The Intelligent Key system warning light remains on in the vehicle information display.
- An Intelligent Key is left inside the vehicle.
- The theft alarm sounds due to illegal entry into the vehicle.
- Two remote engine starts, or a single remote start with an extension, have already been used.
- The shift lever is not in the P (Park) position.

The remote engine start may display a warning or indicator in the vehicle information display. For an explanation of the warning or indicator, see “Operational indicators” (P.2-25).

HOOD



1. Pull the hood lock release handle ① located below the instrument panel; the hood will then spring up slightly.
2. Pull the lever ② up at the front of the hood with your fingertips and raise the hood.
3. When closing the hood, slowly close the hood down and make sure it locks into place.

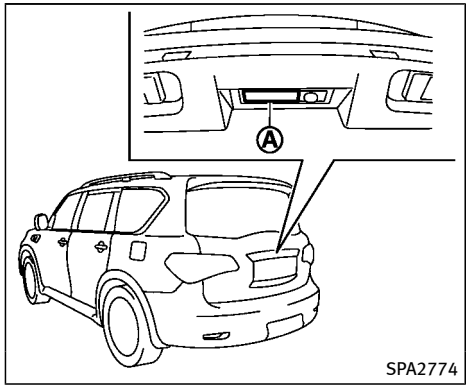
WARNING

- **Make sure the hood is completely closed and latched before driving. Failure to do so could cause the hood to fly open and result in an accident.**
- **If you see steam or smoke coming from the engine compartment, to avoid injury do not open the hood.**

LIFTGATE

WARNING

- **Always be sure the liftgate has been closed securely to prevent it from opening while driving.**
- **Do not drive with the liftgate open. This could allow dangerous exhaust gases to be drawn into the vehicle. See “Exhaust gas (carbon monoxide)” (P.5-4).**
- **Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls. Unattended children could become involved in serious accidents.**
- **Always be sure that hands and feet are clear of the door frame to avoid injury while closing the liftgate.**



OPERATING MANUAL LIFTGATE

To open the liftgate, unlock it and push the liftgate opener switch Ⓐ. Pull up the liftgate to open.

The liftgate can be unlocked by:

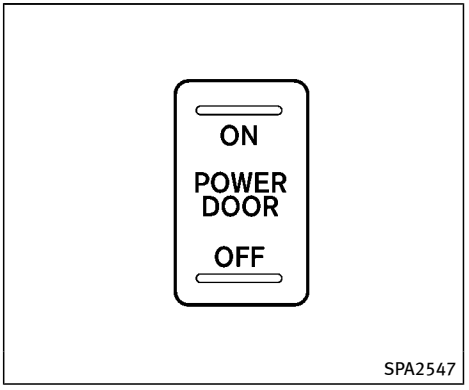
- pushing the unlock button on the Intelligent Key twice.
- pushing the liftgate request switch with the Intelligent Key carried on you.
- pushing the door handle request switch twice with the Intelligent Key carried on you.
- pushing the power door lock switch to the unlock position.
- inserting the mechanical key into the driver's door key cylinder and turning it to the rear of the vehicle twice.

To close the liftgate, pull down until it securely locks.

OPERATING POWER LIFTGATE

To operate the power liftgate, the shift lever must be in the P (Park) position.

The power liftgate will not operate if the battery voltage is low.

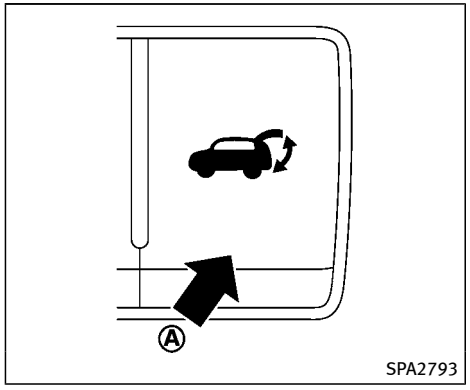


Power liftgate main switch

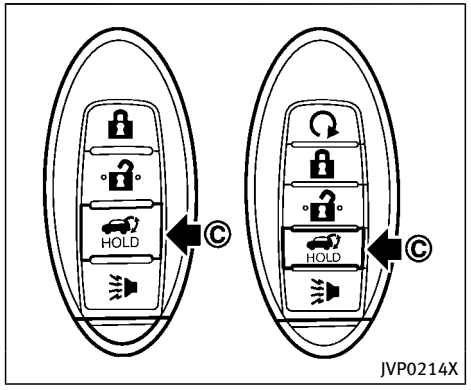
The power liftgate operation can be turned on or off by the power liftgate main switch on the instrument panel.

When the power liftgate main switch is pushed to the "OFF" position, the power operation is not available by the power liftgate switch on the liftgate and liftgate opener switch.

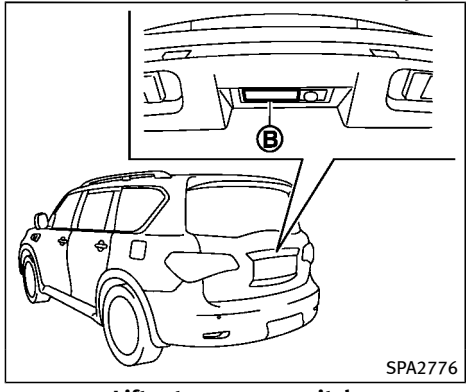
The liftgate can still be operated by the power liftgate switch on the instrument panel and the power liftgate button on the Intelligent Key.



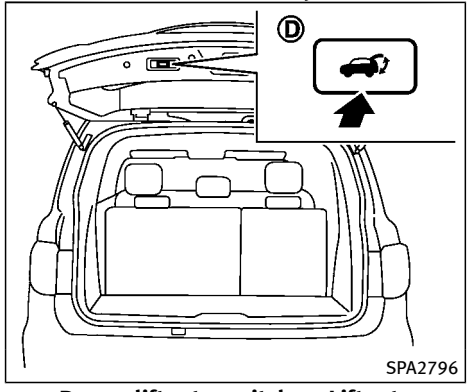
Power liftgate switch — Instrument panel



Intelligent Key



Liftgate opener switch



Power liftgate switch — Liftgate

Power open

When the liftgate is fully closed, the liftgate will fully open automatically by:

- pushing the power liftgate switch Ⓐ on the instrument panel
- pushing the liftgate opener switch Ⓑ
- pushing the power liftgate button Ⓒ on the Intelligent Key for more than 1 second

The hazard flashes 4 times and the outside chime sounds when the liftgate starts opening.

NOTE:

The liftgate can be opened by the power liftgate switch Ⓐ, the liftgate opener switch Ⓑ or the liftgate button Ⓒ even if the liftgate is locked. The liftgate will individually unlock and open.

Power close

When the liftgate is fully opened, the liftgate will fully close automatically by:

- pushing the power liftgate switch Ⓐ on the instrument panel
- pushing the liftgate release button Ⓒ on the Intelligent Key for more than 1 second

- pushing the power liftgate switch Ⓓ on the lower part of the liftgate

The hazard flashes 4 times and the outside chime sounds when the liftgate starts closing.

NOTE:

When the liftgate is closed, it remains unlocked. Manually lock the liftgate.

Reverse function

The power liftgate will reverse immediately if one of the following actions is performed during power open or power close.

- pushing the power liftgate switch Ⓐ on the instrument panel
- pushing the liftgate button Ⓒ on the Intelligent Key.
- pushing the liftgate switch Ⓓ on the lower part of the liftgate

The outside chime sounds when the liftgate starts to reverse.

Auto reverse function

The auto-reverse function enables the liftgate to automatically reverse when something is caught in the liftgate as it is opening or closing. When the control unit detects an obstacle, the liftgate will reverse and return to the full open or full close position.

If a second obstacle is detected, the liftgate motion will stop and the drive motor will disengage. The liftgate will enter the manual mode.

A pinch sensor is mounted on each side of the liftgate. If an obstacle is detected by the pinch sensor during power close, the liftgate will reverse and return to the full open position immediately.

NOTE:

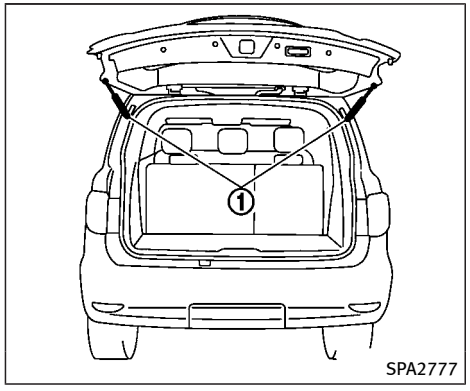
If the pinch sensor is damaged or removed, the power close function will not operate.

WARNING

There is a small distance immediately before the closed position that cannot be detected. Make sure that all passengers keep their hands, etc., clear from the liftgate opening before closing the liftgate.

Manual mode

If power operation is not available, the liftgate can be operated manually. Power operation may not be available if multiple obstacles have been detected in a single power cycle or if the battery voltage is low. When the power liftgate main switch is in the OFF position, the liftgate can be opened manually by pushing the liftgate opener switch. If the power liftgate opener switch is pushed during power open or close, the power operation will be canceled and the liftgate can be operated manually.



Safe Mode

If the gas stays of the liftgate ① lose pressure, the power liftgate safe mode is activated. When the safe mode is activated, the liftgate intermittently closes. Then the liftgate will be pulled to the closed and latched position by a motor.

The power liftgate cannot be opened using the switches at any time in the safe mode.

Do not operate the liftgate again until it is checked. It is recommended you visit an INFINITI retailer for this service.

CAUTION

- **If the power liftgate does not stay open or if the liftgate unexpectedly closes at any time, do not operate the liftgate. There may be a pressure loss in one or both of the liftgate gas stays. Have the liftgate inspected. It is recommended you visit an INFINITI retailer for this service.**
- **Do not activate the power liftgate if one or both of the liftgate gas stays are removed. Damage to the liftgate or power liftgate mechanisms may occur.**

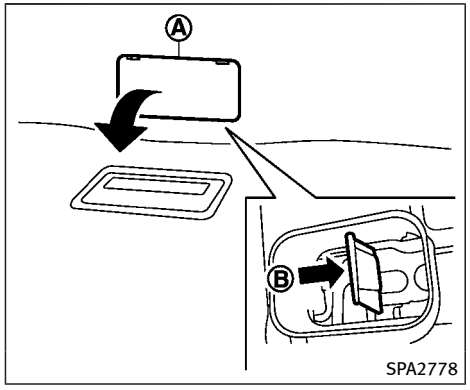
AUTO CLOSURE

If the liftgate is pulled down to a partly open position, the liftgate will pull itself to the closed position.

Do not apply excessive force when the auto closure is operating. Excessive force applied may cause the mechanism to malfunction.

CAUTION

- **The liftgate will automatically close from a partly open position. To avoid pinching, keep hands and fingers away from liftgate opening.**
- **Do not let children operate the liftgate.**



LIFTGATE RELEASE LEVER

If the liftgate cannot be opened with the door lock switch due to a discharged battery, follow these steps.

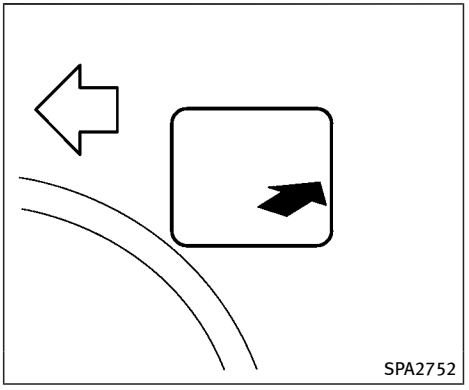
1. Remove the cover Ⓐ inside of the liftgate using a suitable tool.
2. Move the lever Ⓑ as illustrated to open the liftgate.

It is recommended you contact an INFINITI retailer as soon as possible for repair.

OPENING THE FUEL-FILLER DOOR

CAUTION

Lock all doors before going through automatic car wash. Locking doors helps prevent fuel-filler door from opening and becoming damaged.



To open the fuel-filler door, unlock the fuel-filler door by using one of the following operations, then push the right side of the door.

- Push the driver's door handle request switch with the Intelligent Key carried with you.
- Push the passenger's door handle request switch or liftgate request switch twice with the Intelligent Key carried with you.
- Push the UNLOCK button on the Intelligent Key.
- Insert the mechanical key into the door lock cylinder and rotate it towards the

rear of the vehicle.

- Push the power door lock switch to the UNLOCK position.

To lock, close the fuel-filler door securely and lock all doors by operating the door handle request switch, the LOCK button on the Intelligent Key, the mechanical key or the power door lock switch.

FUEL-FILLER CAP

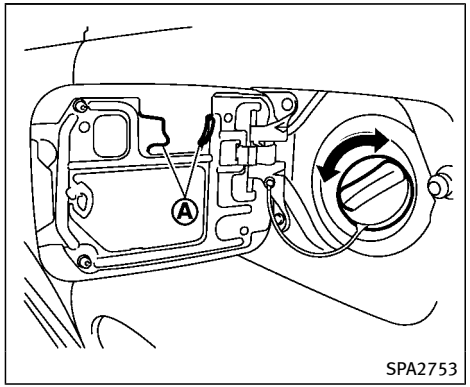
WARNING

- **Gasoline is extremely flammable and highly explosive under certain conditions. You could be burned or seriously injured if it is misused or mishandled. Always stop engine and do not smoke or allow open flames or sparks near the vehicle when refueling.**
- **Do not attempt to top off the fuel tank after the fuel pump nozzle shuts off automatically. Continued refueling may cause fuel overflow, resulting in fuel spray and possibly a fire.**
- **Use only an original equipment type fuel-filler cap as a replacement. It has a built-in safety valve needed for proper operation of the fuel system and emission control system. An incorrect cap can result in a serious malfunction and possible injury. It could also cause the malfunction indicator light to come on.**
- **Never pour fuel into the throttle body to attempt to start your vehicle.**
- **Do not fill a portable fuel container in the vehicle or trailer. Static electricity can cause an explosion of flammable liquid, vapor or gas in any vehicle or trailer. To reduce the risk of serious injury or death when filling portable fuel containers:**
 - **— Always place the container on the ground when filling.**
 - **— Do not use electronic devices when filling.**
 - **— Keep the pump nozzle in contact with the container while you are filling it.**
 - **— Use only approved portable fuel containers for flammable liquid.**

CAUTION

- **If fuel is spilled on the vehicle body, flush it away with water to avoid paint damage.**
- **Insert the cap straight into the fuel-filler tube, then tighten until the fuel-filler cap clicks. Failure to tighten the fuel-filler cap properly may cause the malfunction indicator light (MIL) to illuminate. If the light illuminates because the fuel-filler cap is loose or missing, tighten or install the cap and continue to drive the vehicle. The light should turn off after a few driving trips. If the light does not turn off after a few driving trips, have the vehicle inspected. It is recommended you visit an INFINITI retailer for this service.**
- **The LOOSE FUEL CAP warning will appear if the fuel-filler cap is not properly tightened. It may take a few driving trips for the message to be displayed. Failure to tighten the fuel-filler cap properly after the LOOSE FUEL CAP warning appears may cause the Malfunction Indicator Light (MIL) to illuminate.**

Turn the cap counterclockwise to remove. To tighten, turn the cap clockwise until a single click is heard.

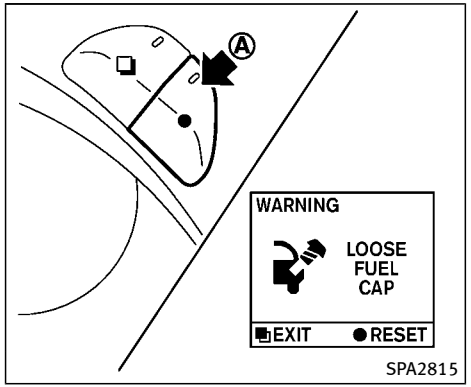


To remove the fuel-filler cap:

1. Turn the fuel-filler cap counterclockwise to remove.
2. Put the fuel-filler cap on the cap holder Ⓐ while refueling.

To install the fuel-filler cap:

1. Insert the fuel-filler cap straight into the fuel-filler tube.
2. Turn the fuel-filler cap clockwise until a single click is heard.



LOOSE FUEL CAP warning

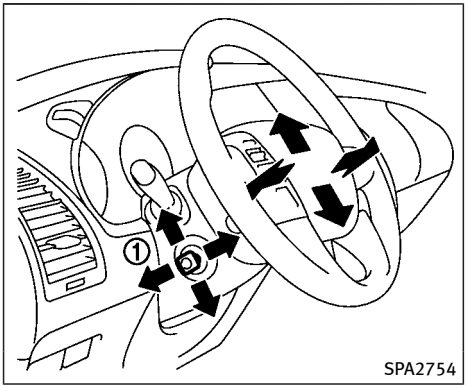
The LOOSE FUEL CAP warning appears on the vehicle information display when the fuel-filler cap is not tightened correctly after the vehicle has been refueled. It may take a few driving trips for the warning to be displayed.

To turn off the warning, perform the following:

1. Remove and install the fuel-filler cap as soon as possible. (See “Fuel-filler cap” (P.3-28).)
2. Tighten the fuel-filler cap until it clicks.
3. Push the ● switch Ⓐ on the right side of the combination meter panel for longer than 1 second to turn off the LOOSE FUEL CAP warning after tightening the fuel cap.

WARNING

- **Do not adjust the steering wheel while driving. You could lose control of your vehicle and cause an accident.**
- **Do not adjust the steering wheel any closer to you than is necessary for proper steering operation and comfort. The driver's air bag inflates with great force. If you are unrestrained, leaning forward, sitting sideways or out of position in any way, you are at greater risk of injury or death in a crash. You may also receive serious or fatal injuries from the air bag if you are up against it when it inflates. Always sit back against the seatback and as far away as practical from the steering wheel. Always use the seat belts.**



ELECTRIC OPERATION

Tilt or telescopic operation

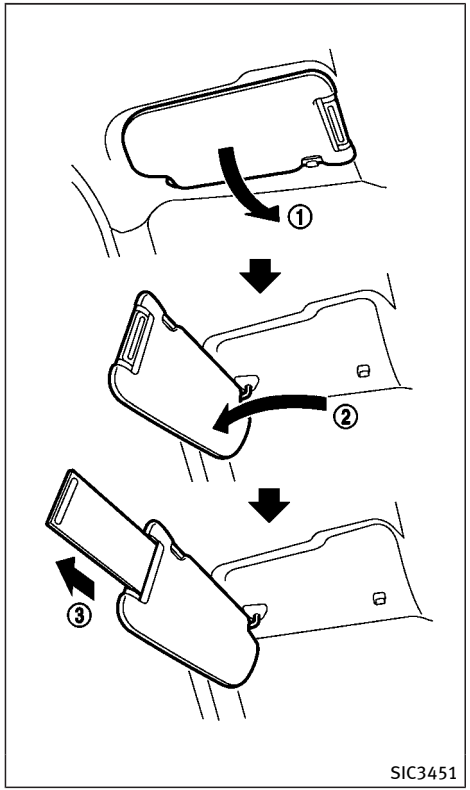
Move the lever ① to adjust the steering wheel up or down, forward or rearward to the desired position.

Entry/Exit function operation:

The automatic drive positioner system will make the steering wheel move up automatically when the driver's door is opened with the ignition switch in the LOCK position. This lets the driver get into and out of the seat more easily.

For more information, see "Automatic drive positioner" (P.3-34).

SUN VISORS



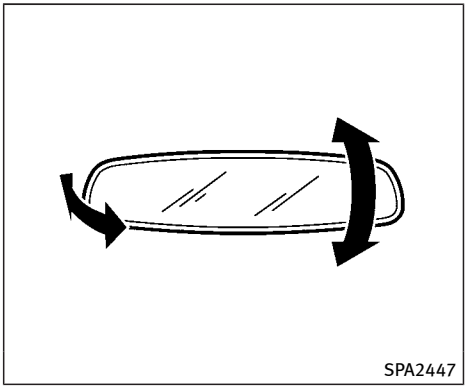
SIC3451

CAUTION

- **Do not store the main sun visor before storing the extension sun visor.**
- **Do not pull the extension sun visor forcedly downward.**

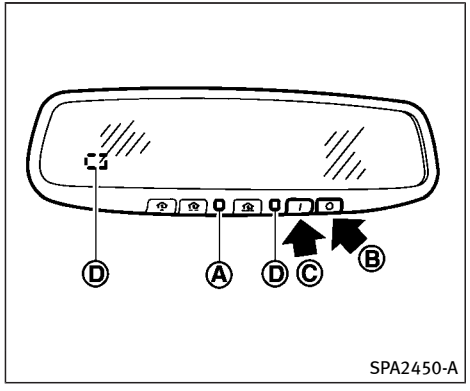
1. To block out glare from the front, swing down the main sun visor ①.
2. To block glare from the side, remove the main sun visor from the center mount and swing it to the side ②.
3. Draw out the extension sun visor ③ from the main sun visor to block from further glare.

MIRRORS


SPA2447

INSIDE MIRROR

Adjust the height and the angle of the inside mirror to the desired position.



SPA2450-A

Automatic anti-glare type

The inside mirror is designed so that it automatically changes reflection according to the intensity of the headlights of the following vehicle.

The anti-glare system will be automatically turned on when the ignition switch is pushed to the ON position.

When the anti-glare system is turned on, the indicator light Ⓐ will illuminate and excessive glare from the headlights of the vehicle behind you will be reduced.

Push the "○" switch Ⓑ to make the inside rearview mirror operate normally. The indicator light will turn off. Push the "I" switch Ⓒ to turn the system on.

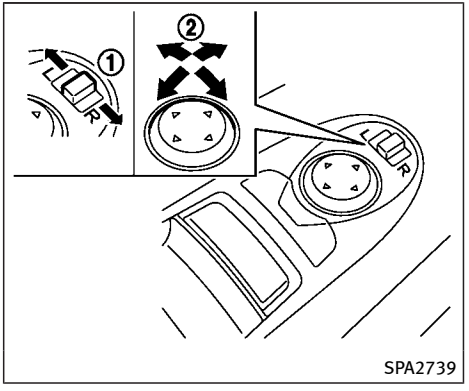
Do not allow any object to cover the sensors Ⓓ or apply glass cleaner on them. Doing so will reduce the sensitivity of the sensor, resulting in improper operation.

For the HomeLink® Universal Transceiver operation, see "HomeLink® Universal Transceiver" (P.2-70).

OUTSIDE MIRRORS

WARNING

- **Objects viewed in the outside mirror on the passenger side are closer than they appear. Be careful when moving to the right. Using only this mirror could cause an accident. Use the inside mirror or glance over your shoulder to properly judge distances to other objects.**
- **Do not adjust the mirrors while driving. You could lose control of your vehicle and cause an accident.**



SPA2739

Adjusting outside mirrors

The outside mirror control switch is located on the driver's door armrest.

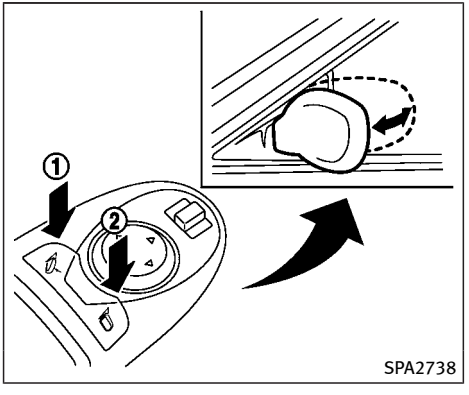
The outside mirror will operate only when the ignition switch is in the ACC or ON position.

Move the switch right or left to select the right or left side mirror ①, then adjust using the control switch ②.

Defrosting outside mirrors

The outside mirrors will be heated when the rear window defroster switch is operated. (See "Rear window and outside

mirror defroster switch” (P.2-38).)



Power foldable outside mirrors

CAUTION

- **Do not touch the mirrors while they are moving. Your hand may be pinched, and the mirror may malfunction.**
- **Do not drive with the mirrors stored. You will be unable to see behind the vehicle.**
- **If the mirrors were folded or unfolded by hand, there is a chance that the mirror will move forward or backward during driving. If the mirrors were folded or unfolded by hand, be sure to adjust them again electrically before driving.**

The outside rearview mirror remote control operates when the ignition switch is in the “ACC” or “ON” position.

To fold the outside rearview mirrors, push the outside rearview mirror folding switch to the “CLOSE” position ①. To unfold, push to the “OPEN” position ②.

If mirrors are manually operated or bumped, the mirror body can become loose at the pivot point. To correct electronic mirror operation, cycle the mirrors by pushing “CLOSE” until completely closed, then push “OPEN” until the mirrors are in the open position.

Reverse tilt-down feature

When backing up the vehicle, the right and left outside mirrors will turn downward automatically to provide better rear visibility.

1. Push the ignition switch to the ON position.
2. Move the shift lever to the R (Reverse) position.
3. Choose the right or left outside mirror by operating the outside mirror control

switch.

4. The outside mirror surfaces move downward.

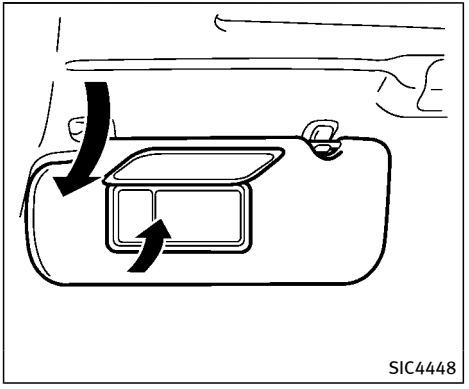
When one of the following conditions has occurred, the outside mirror surfaces will return to their original positions.

- The shift lever is moved to any position other than R (Reverse).
- The outside mirror control switch is set to the center position.
- The ignition switch is placed in to the OFF position.

Automatic anti-glare

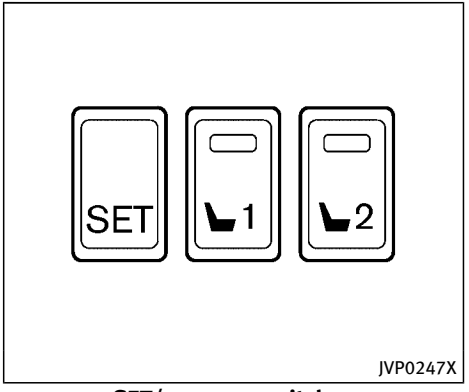
The outside rearview mirrors are designed so that its automatically change reflection according to the intensity of the headlights of the vehicle following you.

The anti-glare system will be automatically turned on when you push the ignition switch to the “ON” position.



VANITY MIRROR

To use the front vanity mirror, pull down the sun visor and pull up the cover.



SET/memory switches

The automatic drive positioner system has three features:

- Entry/exit function
- Memory storage
- Setting memory function

ENTRY/EXIT FUNCTION

This system is designed so that the driver’s seat and steering column will automatically move when the automatic transmission shift lever is in the P (Park) position. This allows the driver to get into and out of the driver’s seat more easily.

The driver’s seat will slide backward and

the steering wheel will move up when the driver's door is opened with the ignition switch in the LOCK position.

The driver's seat and steering wheel will return to the previous positions when the ignition switch is pushed to the ACC position.

The driver's seat will not return to the previous positions if the seat or steering adjusting switch is operated when the seat is at the exit position.

Cancel or activate entry/exit function

The shift lever must be in the P (Park) position with the ignition switch in the OFF position.

The entry/exit function can be activated or canceled by pressing and holding the SET switch for more than 10 seconds.

The entry/exit function can also be activated or canceled if the "Lift Steering Wheel on Exit" key or "Slide Driver Seat Back on Exit" key is turned to ON or OFF in the "Comfort" settings. (See "Vehicle information and settings" (P.4-7).)

Initialize entry/exit function

If the battery cable is disconnected, or if the fuse opens, the entry/exit function will not work though this function was set on before. In such a case, after connecting the battery or replacing with a new fuse, open and close the driver's door more than two times after the ignition switch is turned from the ON position to the LOCK position. The entry/exit function will be activated.

MEMORY STORAGE

Two positions for the driver's seat, steering column and outside mirrors can be stored in the automatic drive positioner memory. Follow these procedures to use the memory system.

1. Move the shift lever to the P (Park) position.
2. Adjust the driver's seat, steering column and outside mirrors to the desired positions by manually operating each adjusting switch. For additional information, see "Seats" (P.1-3) and "Tilt/telescopic steering" (P.3-30) and "Outside mirrors" (P.3-32).
3. Push the SET switch and, within 5 seconds, push the memory switch (1 or 2) fully for at least 1 second.

 The indicator light for the pushed memory switch will stay on for approximately 5 seconds after pushing the switch.

 When the memory is stored in the memory switch (1 or 2), a buzzer will sound.

 If memory is stored in the same memory switch, the previous memory will be deleted.

Linking Intelligent Key to a stored memory position

The Intelligent Key can be linked to a stored memory position with the following procedure.

1. Follow the steps for storing a memory position.
2. While the indicator light for the memory switch being set is illuminated for 5 seconds, push the button on the Intelligent Key. If the indicator light blinks, the Intelligent Key is linked to that memory setting.

Push the ignition switch to the OFF position, and then push the button on the Intelligent Key. The driver's seat, steering wheel and outside mirrors will move to the

memorized position.

Confirming memory storage

- Push the ignition switch to the ON position and push the SET switch. If the main memory has not been stored, the indicator light will come on for approximately 0.5 second. When the memory has stored in position, the indicator light will stay on for approximately 5 seconds.
- If the battery cable is disconnected, or if the fuse opens, the memory will be canceled. In this case, reset the desired position using the previous procedure.
- If optional Intelligent Keys are added to your vehicle, the memory storage procedure to switch 1 or 2 and linking Intelligent Key procedure to a stored memory position should be performed again for each Intelligent Key. For additional Intelligent Key information, see “Keys” (P.3-2).

Selecting the memorized position

1. Move the shift lever to the P (Park) position.
2. Use one of the following methods to move the driver’s seat, the outside mirrors and the steering wheel.
 - Within 45 seconds of opening the driver’s door, push the memory switch (1 or 2) fully for at least 1 second.

 The driver’s seat, steering column and outside mirrors will move to the memorized position or to the exit position when the entry/exit function is set to active with the indicator light flashing, and then the light will stay on for approximately 5 seconds.

SETTING MEMORY FUNCTION

The status of the following settings can be linked to the Intelligent Key and the memorized settings can be available for each Intelligent Key.

- Air conditioner system
- Navigation system
- Audio system

To use the memory function, lock the doors with the Intelligent Key that is linked to the settings.

To enable the memorized settings:

1. Carry the Intelligent Key that is linked to the settings, and unlock the doors by pushing the driver’s door handle request switch or “UNLOCK” button on the Intelligent Key.
2. Push the ignition switch to the “ON” position. “Connection with the key has been done” will be displayed on the screen and the memorized settings are available (only when a new Intelligent Key is used).

SYSTEM OPERATION

The automatic drive positioner system will not work or will stop operating under the following conditions:

- When the vehicle speed is above 4 MPH (7 km/h).
- When the adjusting switch for the driver’s seat and steering column is turned on while the automatic drive positioner is operating.
- When the memory switch 1 or 2 is not pushed for at least 1 second.
- When the seat, steering column and outside mirrors have already been moved to the memorized position.
- When no position is stored in the memory switch.
- When the engine is started while moving the automatic drive positioner.

- When the AT shift lever is moved from the P (Park) position to any other position. (However, it will not be canceled if the switch is pushed while the seat and steering column are returning to the previous positions (entry/exit function).)
- When the driver's door remains open for more than 45 seconds and the ignition switch is not in the ON position.

MEMO

4 Monitor, climate, audio, phone and voice recognition systems

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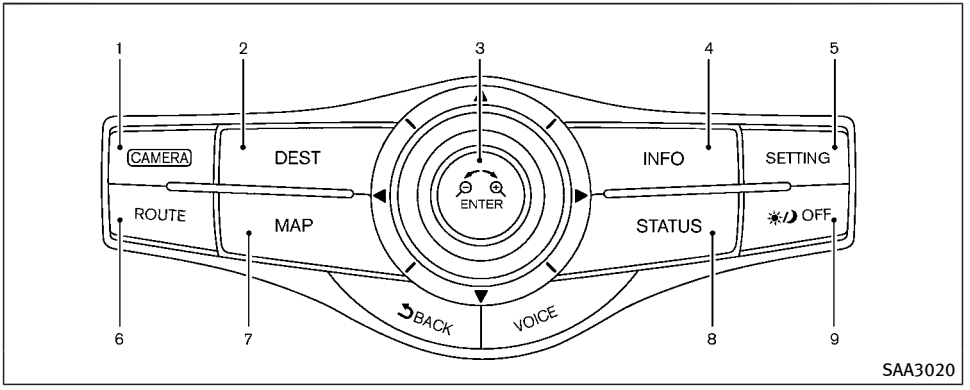
SAFETY NOTE

WARNING

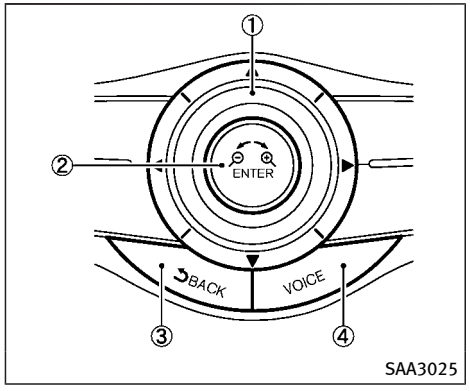
- **Do not disassemble or modify this system. If you do, it may result in accidents, fire, or electric shock.**
- **Do not use this system if you notice any abnormality, such as a frozen screen or lack of sound. Continued use of the system may result in accident, fire or electric shock.**
- **In case you notice any foreign object in the system hardware, spill liquid on it, or notice smoke or smell coming from it, stop using the system immediately. It is recommended you visit an INFINITI retailer for servicing. Ignoring such conditions may lead to accidents, fire, or electric shock.**
- **Park the vehicle in a safe location and apply the parking brake to view the images on the front center display screen.**

Do not attempt to operate the system in extreme temperature conditions [below –4°F (–20°C) and above 158°F (70°C)]. Operating this system under these conditions may result in system malfunctions.

CENTER MULTI-FUNCTION CONTROL PANEL



1. “CAMERA” Around View® Monitor display button (P.4-21)
2, 6, 7. For navigation system control buttons (Refer to the separate Navigation System Owner’s Manual.)
3. INFINITI controller (P.4-4)
4. “INFO” vehicle and navigation information button (P.4-7)
5. “SETTING” button (P.4-12)
8. “STATUS” status display button (P.4-7)
9. “☀/ OFF” brightness control and display ON/OFF button (P.4-7)



HOW TO USE INFINITI CONTROLLER

Choose an item on the display by rotating or pushing the center dial ① upward/downward, and push the ENTER button ② for operation.

If you push the BACK button ③ before the setup is completed, the setup will be canceled and/or the display will return to the previous screen. This button can also be used to delete characters that have been input.

After the setup is completed, push the BACK button ③ and return to the previous screen.

For the VOICE button ④ functions, refer to the separate Navigation System Owner's Manual.

HOW TO USE TOUCH SCREEN

WARNING

- **ALWAYS give your full attention to driving.**
- **Avoid using vehicle features that could distract you. If distracted, you could lose control of your vehicle and cause an accident.**

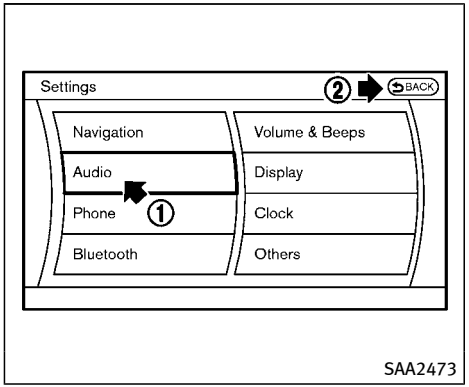
CAUTION

- **The glass screen on the liquid crystal display may break if it is hit with a hard or sharp object. If the glass screen breaks, do not touch it. Doing so could result in an injury.**
- **To clean the display, use a soft, dry cloth. If additional cleaning is necessary, use a small amount of neutral detergent with a soft cloth. Never use a rough cloth, alcohol, benzine, thinner or any kind of solvent or paper towel with a chemical cleaning agent. They will scratch or deteriorate the panel.**
- **Do not splash any liquid such as water or car fragrance on the display. Contact with liquid will cause the system to malfunction.**

To ensure safe driving, some functions cannot be operated while driving.

The on-screen functions that are not available while driving will be "grayed out" or muted.

Park the vehicle in a safe location and then operate the navigation system.



Example

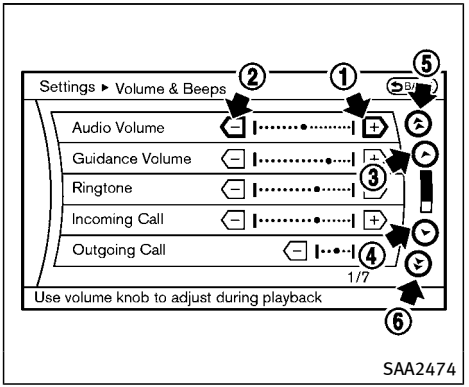
Touch screen operation

With this system, the same operations as those for the INFINITI controller are possible using the touch screen operation.

Selecting the item:

Touch an item to select it. To select the “Audio” settings, touch the “Audio” area ① on the screen.

Touch the BACK ② key to return to the previous screen.



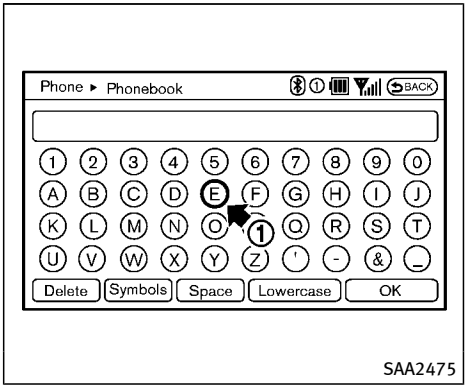
Example

Adjusting an item:

Touch the **+** ① or **–** ② button to adjust the settings.

Touch the ③ or ④ button to move to the previous or next item.

Touch the ⑤ or ⑥ button to move to the previous or next page.



Inputting characters:

Touch the letter or number ①.

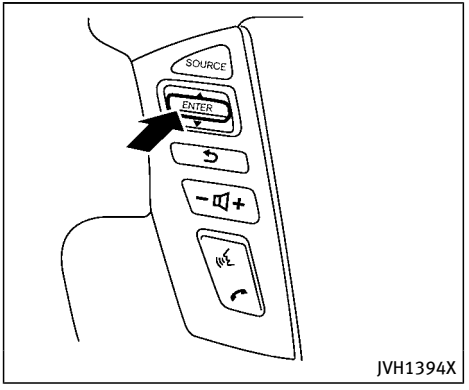
There are some options available when inputting characters.

- **Uppercase:**
 Shows uppercase characters.
- **Lowercase:**
 Shows lowercase characters.
- **Symbols:**
 Shows symbols such as the question mark (?).
- **Space:**
 Inserts a space.

- **Delete:**
 Deletes the last character that has been input with one touch. Push and hold the button to delete all of the characters.
- **OK:**
 Completes character inputs.

Touch screen maintenance

If you clean the display screen, use a dry, soft cloth. If additional cleaning is necessary, use a small amount of neutral detergent with a soft cloth. Never spray the screen with water or detergent. Dampen the cloth first, and then wipe the screen.

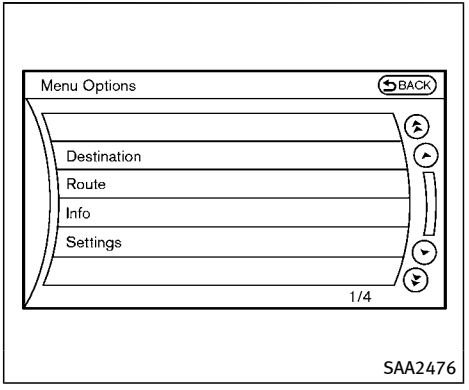


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MENU OPTIONS

The start menu can be displayed using the menu control switch on the steering-wheel-mounted controls.

1. While the MAP or STATUS screen is displayed, push and hold the menu control switch until the “Menu Options” screen appears.
2. Highlight the preferred item by tilting the menu control switch up or down, and then push the menu control switch to select it.



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Available items

Destination/Route:

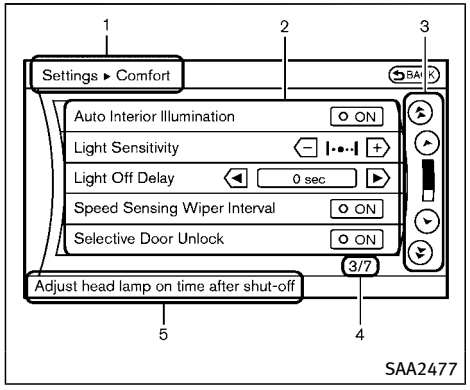
These items are for the navigation system. See the separate Navigation System Owner’s Manual for details.

Info:

Displays the information screen. It is the same screen that appears when you push the INFO button.

Settings:

Displays the settings screen. It is the same screen that appears when you push the SETTING button.



HOW TO SELECT MENUS ON THE SCREEN

Vehicle functions are viewed on the display screen in menus. To select each key item, highlight the preferred item using the INFINITI controller and push the ENTER button.

Whenever a menu selection is made or menu item is highlighted, different areas on the screen provide you with important information. See the following for details.

1. Header:

 Shows the path used to get to the current screen.

2. Menu Selections:

 Shows the options to choose within that menu screen.

3. UP/DOWN Movement indicator:

 Shows that the INFINITI controller may be used to move UP/DOWN on the screen and select more options.

4. Menu Items Counter:

 Shows the total number of items listed across all pages for the current menu.

5. Footer/Information Line:

 Provides more information (if available) about the menu selection currently highlighted.

HOW TO USE STATUS BUTTON

You can check information related to the audio, climate control system, fuel consumption and navigation system by pushing the STATUS button repeatedly.

HOW TO USE BRIGHTNESS CONTROL AND DISPLAY ON/OFF BUTTON

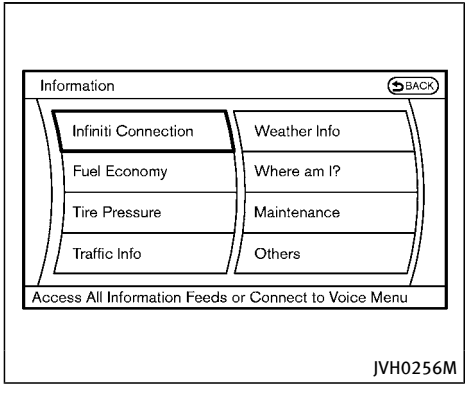
Push the "☀/☽ OFF" button to switch the display brightness to the daytime mode or the nighttime mode, and to adjust the display brightness using the INFINITI controller while the indicator is displayed at the bottom of the screen.

Push and hold the "☀/☽ OFF" button for more than 2 seconds to turn the display off. Push the button again to turn the display on.

HOW TO USE INFO BUTTON

The display screen shows vehicle and navigation information for your convenience.

The information shown on the screen should be a guide to determine the condition of the vehicle. See the following for details.

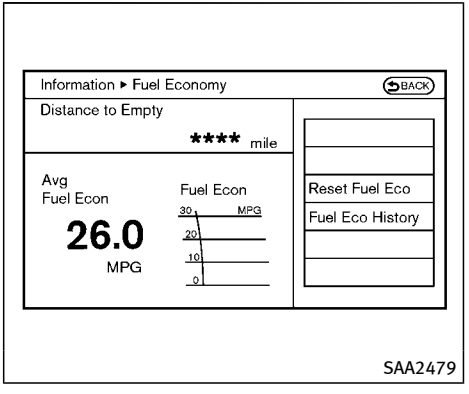


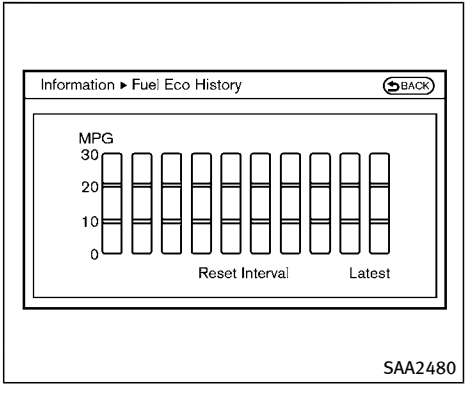
1. Push the INFO button on the control panel.
2. Select an item from the INFO menu.
3. After viewing or adjusting the information on the following screens, push the BACK button to return to the INFO menu.

See the separate Navigation System Owner's Manual for the following items:

- Infiniti Connection
- Where am I?
- Traffic Info
- Weather Info
- Map Update
- Navigation Version*
- GPS Position

* When the ignition switch is in the ON position, the "Navigation Version" key is displayed after selecting the "Others" key.





Fuel Economy information

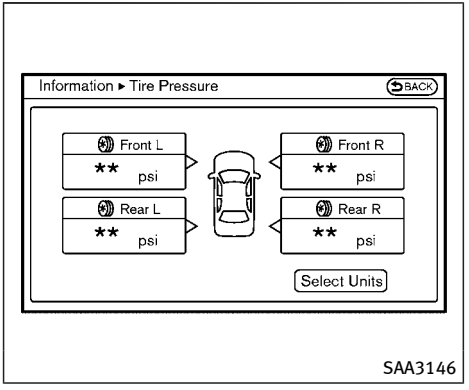
The approximate distance to empty, average fuel economy and current fuel economy will be displayed for reference.

To reset the average fuel economy (Avg Fuel Econ), select the “Reset Fuel Eco” key.

If the “Fuel Eco History” key is selected, the average fuel consumption history will be displayed in graph form along with the average for the previous Reset-to-Reset period.

The unit can be converted between “US” and “Metric”. (See “How to use SETTING button” (P.4-12).)

The fuel economy information may differ from the information displayed on the vehicle information display. This is due to the timing difference in updating the information and does not indicate a malfunction.



TIRE PRESSURE information

WARNING

- **Since the spare tire is not equipped with the TPMS, when a spare tire is mounted or a wheel is replaced, tire pressure will not be indicated, the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute. The light will remain on after 1 minute. Have your tires replaced and/or TPMS system reset as soon as possible. It is recommended you visit an INFINITI retailer for these services.**
- **Replacing tires with those not originally specified by INFINITI could affect the proper operation of the TPMS.**

The tire pressure will be displayed for reference.

The pressure indication “** kPa” or “** psi” on the screen means that the pressure is being measured. After a few driving trips, the pressure for each tire will be displayed.

To change the measurement units, select the “Select Units” key with the INFINITI controller and push the ENTER button.

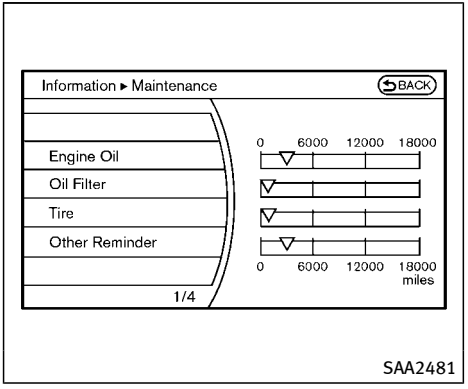
In case of low tire pressure, LOW PRESSURE information will be displayed on the screen. Check the pressure of all tires.

Tire pressure rises and falls depending on the heat caused by the vehicle’s traveling condition and the temperature.

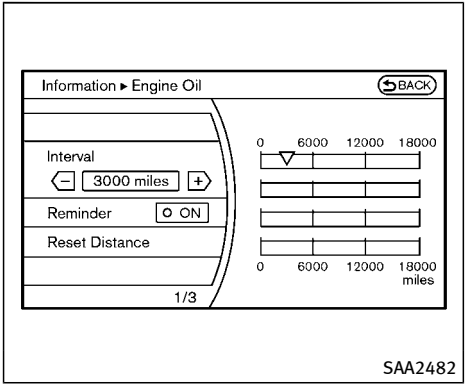
After tire rotation is performed, tire pressure will not be displayed in the actual tire position. Drive the vehicle at over 25 MPH (40 km/h) for approximately 10 minutes to reset the display.

For more details about the Tire Pressure Monitoring System (TPMS), see “Tire Pressure Monitoring System (TPMS)” (P.5-5).

* When the ignition switch is in the ACC position, the “Tire Pressure” key is not displayed.



SAA2481



SAA2482

Maintenance information

The maintenance intervals can be displayed for the engine oil, oil filter, tire and other reminders.

To set a maintenance interval, select a preferred item from the list.

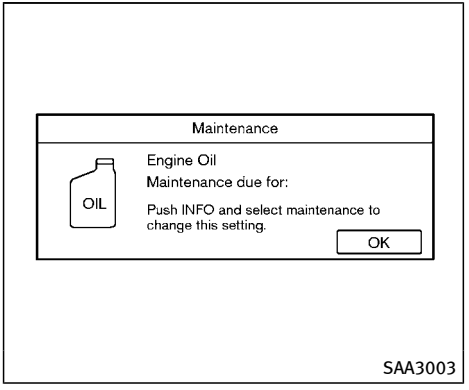
You can also set to display a message to remind you that the maintenance needs to be performed.

The following example shows how to set the engine oil maintenance information. Use the same steps to set the other maintenance information.

1. Set the interval (mileage) of the maintenance schedule. To determine the recommended maintenance interval, refer to the “9. Maintenance and schedules” section.
2. To display the reminder automatically when the desired distance is reached, select the “Reminder” key.
3. Reset the driving distance to the new maintenance schedule.
4. To return to the previous screen, push the BACK button.

The unit can be converted between “US” and “Metric”. (See “How to use SETTING

button” (P.4-12).)



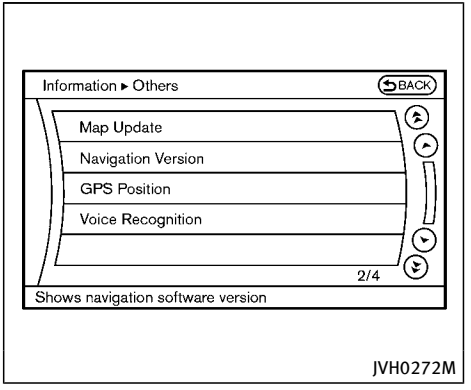
SAA3003

The Reminder will be automatically displayed when the specified distance has been driven and every time the ignition switch is pushed to the ACC or ON position. The reminder will not appear while driving.

Select the “OK” key to hide the reminder for the rest of the current drive.

To stop the reminder from appearing, perform one of the following actions:

- Select the “Reset Distance”.
- Deactivate the “Reminder”.
- Increase the “Interval” distance to be more than the current distance being tracked.



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Others information

The Others information display will appear when pushing the INFO button and selecting the “Others” key.

Map Update:

For the details of this item, see the separate Navigation System Owner’s Manual.

Navigation Version:

For the details of this item, see the separate Navigation System Owner’s Manual.

When the ignition switch is in the ON

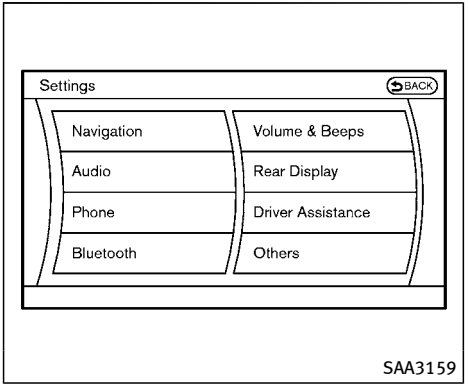
position, the “Navigation Version” key is displayed after pushing the INFO button.

GPS Position:

For the details of this item, see the separate Navigation System Owner’s Manual.

Voice Recognition:

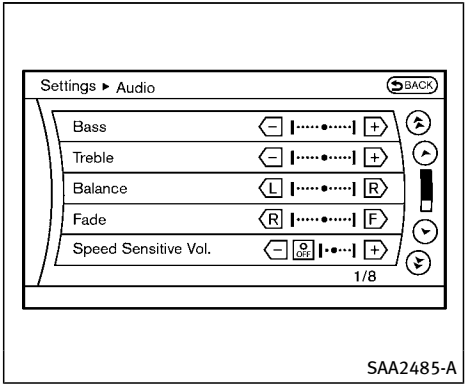
For the details of this item, see “INFINITI Voice Recognition system” (P.4-114).



HOW TO USE SETTING BUTTON

The display as illustrated will appear when the SETTING button is pushed.

For navigation settings, refer to the separate Navigation System Owner’s Manual.



Audio settings

The display as illustrated will appear when pushing the SETTING button and selecting the “Audio” key.

Bass/Treble/Balance/Fade:

To adjust the speaker tone quality and sound balance, select the “Bass”, “Treble”, “Balance” or “Fade” key and adjust it with the INFINITI controller.

These items can also be adjusted by pushing and turning the AUDIO knob.

Speed Sensitive Vol. (if so equipped):

The audio system's volume is increased with the vehicle speed. Select the "Speed Sensitive Vol." and adjust the effect level with the INFINITI controller. The Speed Sensitive Volume function is turned off when the level is set to OFF. Increasing the value will cause the volume to increase faster with vehicle speed.

BOSE® Centerpoint (if so equipped):

When this item is turned to ON, an exciting surround sound effect is generated from a traditional stereo recording.

Surround Effect (if so equipped):

To adjust the surround sound volume, select "Surround Effect" key and adjust it with the INFINITI controller.

Driver's Audio Stage (if so equipped):

When this feature is turned to ON, better sound will be provided to the driver's position. The driver can enjoy a more crisp and clear sound that is specialized for the driver's position. The effect of this feature depends on the type of music that is played. For some music, it may be difficult to realize the effect of this feature.

DivX Registration Code:

The registration code for a device that is used to download DivX® files will be displayed on the screen. If a disc is loaded or a USB memory is connected to the audio system, this function will not be activated.

Display Album Cover Art:

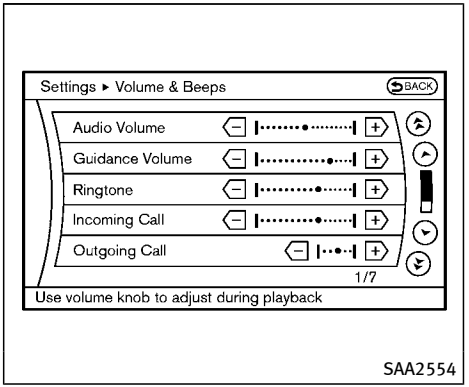
When this item is turned to ON, the album cover image is displayed when playing compressed music files through a CD, DVD, iPod® or MP3 USB memory. When the image is not properly embedded in the file or device, the image will not be displayed.

Phone settings

For details of the "Phone" settings, see "Bluetooth® Hands-Free Phone System" (P.4-104).

Bluetooth settings

For details of the "Bluetooth" settings, see "Bluetooth® Hands-Free Phone System" (P.4-104).



Volume and Beeps settings

The display as illustrated will appear when pushing the SETTING button, selecting the "Volume & Beeps" key.

Audio Volume:

To increase or decrease the audio volume, select the "Audio Volume" and adjust it with the INFINITI controller. You can also adjust the audio volume by turning the VOLUME control knob.

Guidance Volume:

To adjust the guidance voice volume, select the "Guidance Volume" and adjust it with the INFINITI controller.

Ringtone/Incoming Call/Outgoing Call:

For the details of these items, see “Bluetooth® Hands-Free Phone System” (P.4-104).

Infiniti Connection Vol:

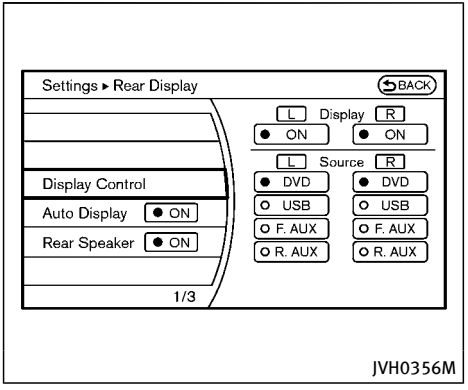
To adjust the Infiniti Connection volume, select the “Infiniti Connection Vol” and adjust it with the INFINITI controller.

Switch Beeps:

When this item is turned to ON, you will hear a beep sound when you use a button.

Guidance Voice:

When this item is turned to ON, you will hear voice guidance in the navigation operation or in other operations.



REAR DISPLAY settings (if so equipped)

The “Rear Display” screen will appear when the SETTING button is pushed, the “Rear Display” key is selected. (See “Dual head restraint DVD system” (P.4-89).)

Display Control:

The rear seat display can be set from the front seat using the control panel. Select the “L” (left) or “R” (right) display and push Enter button. When an item is set to ON, the selected side of the rear display turns on. Select “DVD”, “USB”, “F.AUX” or “R. AUX” for Source “L” (left) and “R” (right) and push the ENTER button to switch each display to the selected source.

Auto Display:

When this item is turned on and a DVD or USB (movie file only) is played, the rear display turns on automatically.

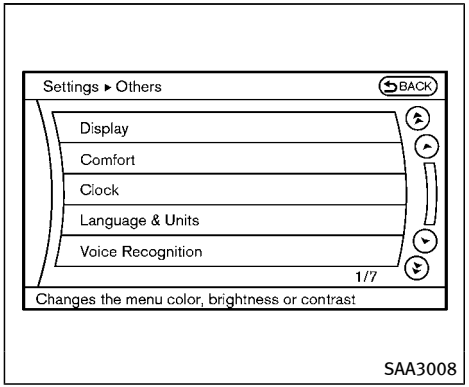
Rear Speaker:

This item turns the rear speakers on/off.

DRIVER ASSISTANCE settings (if so equipped)

For details of the “Driver Assistance” settings, refer to the following items:

- “Lane Departure Warning (LDW)/Lane Departure Prevention (LDP) ” (P.5-23).
- “Blind Spot Warning (BSW)” (P.5-33).
- “Blind Spot Intervention® (BSI)” (P.5-43).
- “Back-up Collision Intervention (BCI)” (P.5-56).
- “Distance Control Assist (DCA)” (P.5-91).
- “Forward Emergency Braking (FEB) with pedestrian detection” (P.5-105).
- “Predictive Forward Collision Warning (PFCW)” (P.5-113).

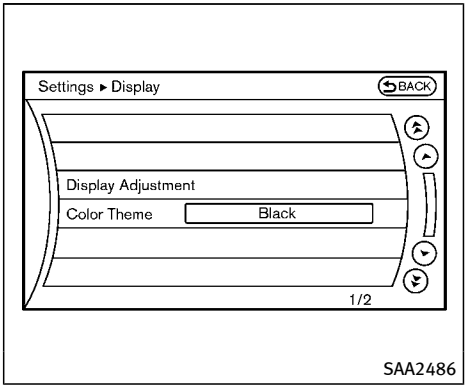


Others settings

The Others settings display will appear when pushing the SETTING button and selecting the “Others” key.

The following items are available:

- Display
- Comfort
- Clock
- Language & Units
- Voice Recognition
- Infiniti Connection
- Camera
- Image Viewer



Display settings

The display as illustrated will appear when pushing the SETTING button and selecting the “Display” key.

Display Adjustment:

To adjust the display settings, select the “Display Adjustment” key. The following settings are available.

- Display

To turn off the screen, push the ENTER button and turn the “Display” indicator off. The other method is to push and hold the ☀/☽ OFF button for more than 2 seconds.

When any mode button is pushed with the screen off, the screen turns on for further operation. The screen will turn off automatically 5 seconds after the operation is finished.

To turn on the screen, set this item to the ON position, or push and hold the ☀/◑ OFF button.

- Brightness/Contrast/Background Color

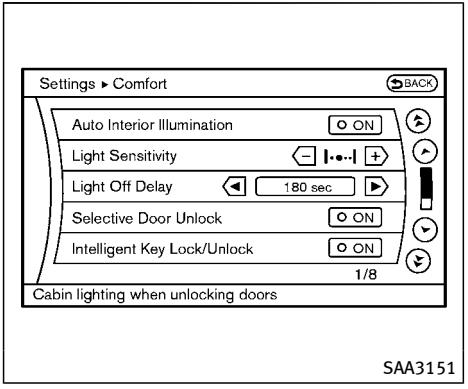
To adjust the brightness and contrast of the screen, select the “Brightness” or “Contrast” key.

Then, you can adjust the brightness and the contrast using the INFINITI controller.

For information on the “Background Color” key, refer to the separate Navigation System Owner’s Manual.

Color Theme:

Choose the theme color of the menu screen from “Black”, “Brown” or “Silver”.



Comfort settings

The display as illustrated will appear when pushing the SETTING button and selecting the “Others” key, and then selecting the “Comfort” key. This key does not appear on the display until the ignition switch is pushed to the ON position.

Auto Interior Illumination:

When this item is turned to ON, the interior lights will illuminate if any door is unlocked.

Light Sensitivity:

Adjust the sensitivity of the automatic headlights higher (right) or lower (left).

Light Off Delay:

Choose the duration of the automatic headlight off timer from 0, 30, 45, 60, 90, 120, 150 and 180 second periods.

Selective Door Unlock:

When this item is turned to ON, only the driver’s door is unlocked first after the door unlock operation. When the door handle request switch on the driver’s or front passenger’s side door is pushed to be unlocked, only the corresponding door is unlocked first. All the doors can be unlocked if the door unlock operation is performed again within 60 seconds.

When this item is turned to OFF, all the doors will be unlocked after the door unlock operation is performed once.

Intelligent Key Lock/Unlock:

When this item is turned to ON, door lock/unlock function by pushing the door handle request switch will be activated.

Lift Steering Wheel on Exit:

When this item is turned to ON, the steering wheel moves upward for easy exit if the ignition switch is in the LOCK position and the driver’s door is opened. After getting into the vehicle and pushing the

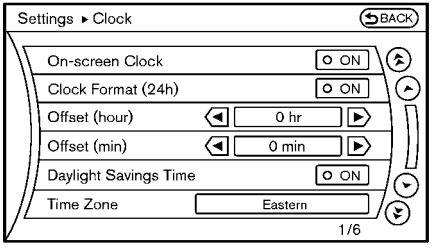
ignition switch to the ACC position, the steering wheel moves to the previous position.

Slide Driver Seat Back on Exit:

When this item is turned to ON, the driver's seat moves backward for easy exit if the ignition switch is in the OFF position and the driver's door is opened. After getting into the vehicle and pushing the ignition switch to the ACC position, the driver's seat moves to the previous position.

Return All Settings to Default:

Select this item and then select "YES" to return all settings to the default.



SAA2487

Clock settings

The display as illustrated will appear when pushing the SETTING button and selecting the "Others" key, and then selecting the "Clock" key.

The clock settings display cannot be operated while driving. Stop the vehicle in a safe place and apply the parking brake before setting the clock.

On-screen Clock:

When this item is turned to ON, a clock is always displayed in the upper right corner of the screen.

This clock will indicate the time almost exactly because it is always adjusted by the GPS system.

Clock Format (24h):

When this item is turned to ON, the 24-hour clock is displayed. When this item is not turned to ON, the 12-hour clock is displayed.

Offset (hour)/(min):

Adjust the time by increasing or decreasing per hour or per minute.

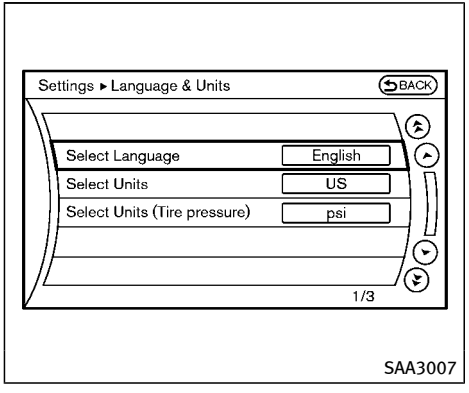
Daylight Saving Time:

Turn this item to ON for daylight saving time application.

Time Zone:

Choose the time zone from the following

- Pacific
- Mountain
- Central
- Eastern
- Atlantic
- Newfoundland
- Hawaii
- Alaska



Language & Units settings

The Language & Units settings display will appear when pushing the SETTING button.

Select the “Others” key to show the “Language & Units” key.

Select Language:

Select the “Select Language” key. Choose “English”, “Français” or “Español” for your favorite display appearance.

If you select the “Français” key, the French language will be displayed, so please use the French Owner’s Manual. To obtain a French Owner’s Manual, see “Owner’s Manual/Service Manual order information” (P.10-35).

Select Units:

Select the “Select Units” key. Choose “US” (Mile, °F, MPG) or “Metric” (km, °C, L/100 km) for your favorite display appearance.

Select Units (Tire Pressure):

Choose the “Select Units (Tire Pressure)” key and push the ENTER button. From the following display, select “kPa” or “psi”. When the ignition switch is in the ACC position, the “Select Units (Tire Pressure)” key is not displayed.

Voice Recognition settings

For details about the “Voice Recognition” settings, see “INFINITI Voice Recognition system” (P.4-114).

Infiniti Connection

The information feeds history and the UNIT ID can be confirmed and Infiniti Connection history can be deleted. For further details, see the separate Navigation System Owner’s Manual.

CAMERA settings

The “CAMERA” screen will appear when pushing the SETTING button, selecting the “Camera” key with the INFINITI controller and pushing the ENTER button.

For the details about the camera system operation, see “Around View® Monitor settings” (P.4-30).

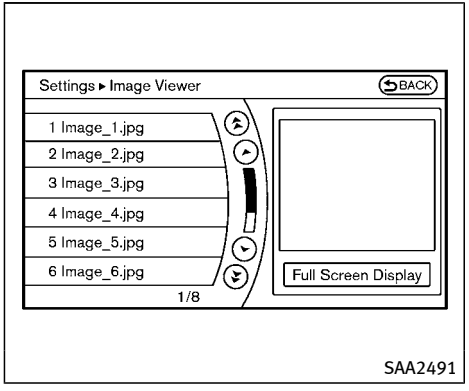
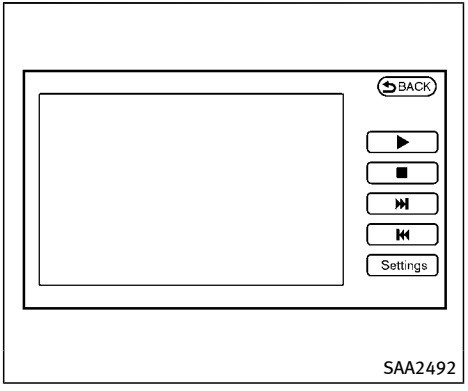


Image Viewer

The image files in the USB memory will be displayed. To display the Image Viewer, push the SETTING button, select the “Other” key and then select the “Image Viewer” key. The image of the selected file is displayed on the right side of the screen.

When a number of folders are included in the USB memory, select a folder from the list to display the file list.

Images will not be shown on the display while the vehicle is in any drive position to reduce driver distraction. To view images, stop the vehicle in a safe location and apply the parking brake.



Full Screen Display:

The full screen display will appear when selecting the “Full Screen Display” key.

To operate the Image Viewer or to change the settings, select the desired key using the INFINITI controller.

- ▶ (Start)
 Select the “▶” key to start playing the slideshow.
- ■ (Stop)
 Select the “■” key to stop the slideshow.
- ⏭ (Next)
 Select the “⏭” key to display the next

file.

- ⏮ (Previous)
 Select the "⏮" key to display the previous file.

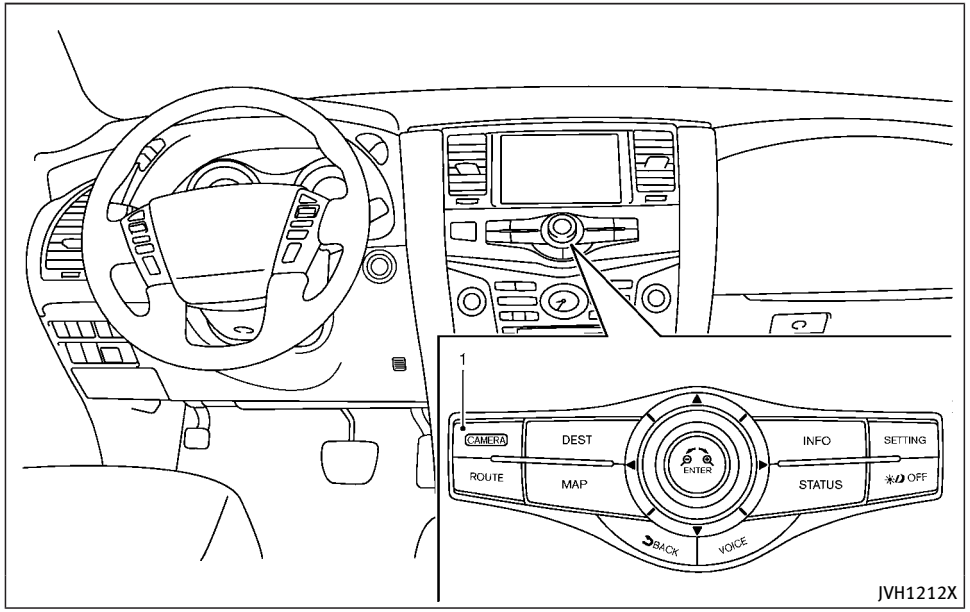
Setting the Image Viewer:

The Image Viewer setting display will appear when selecting the "Settings" key on the full screen display. The following settings are available for the full screen display.

- Slideshow Speed
 Select the "Slideshow Speed" key. From the following display, select the changing time from 5, 10, 30, 60 seconds or "No Auto Change".
- Slideshow Order
 Select the "Slideshow Order" key. From the following display, select "Random" or "Order List". For "Order List", the image order is the order of the files as stored on the USB memory.

Operating tips:

- Only files that meet the following conditions will be displayed.
 — Image type: JPEG
 — File Extensions: *.jpg, *jpeg
 — Maximum Resolution: 2048 × 1536 pixels
 — Maximum Size: 2 MB
 — Colors: 32768 (15 bit)
 — Maximum File Name lengths: 253 Bytes
 — Maximum Folders: 500
 — Maximum Images per Folder: 1024
- If an electronic device (such as a digital camera) is directly connected to the vehicle using a USB cable, no image will be displayed on the screen.
- If the file name is too long, some file names may not be entirely displayed.
- When the total number of characters in the file name exceeds 100 or if 1 file name in a directory exceeds 100 characters, all files will show a shortened 8-character version. The image will still be displayed when selected.



1. **CAMERA** button

WARNING

Failure to follow the warnings and instructions for the proper use of the Around View® Monitor system could result in serious injury or death.

- **The Around View® Monitor is a convenience feature and is not a substitute for proper vehicle operation because it has areas where objects cannot be viewed. The four corners of the vehicle in particular, are areas where objects do not always appear in the bird's-eye, front, or rear views. Always check your surroundings to be sure that it is safe to move before operating the vehicle. Always operate the vehicle slowly.**
- **The driver is always responsible for safety during parking and other maneuvers.**

CAUTION

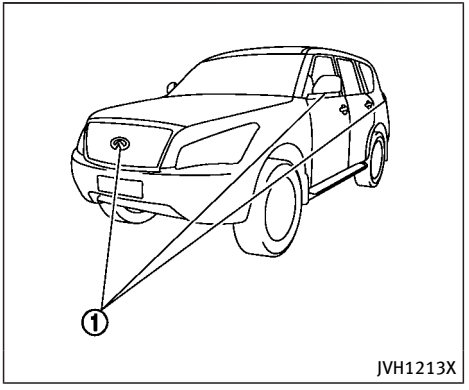
Do not scratch the lens when cleaning dirt or snow from the front of the camera.

The Around View® Monitor system is designed as an aid to the driver in situations such as slot parking or parallel parking.

The monitor displays various views of the position of the vehicle in a split screen format. All views are not available at all times.

Available views:

- Front view
 An approximately 150-degree view of the front of the vehicle.
- Rear view
 An approximately 150-degree view of the rear of the vehicle.
- Bird's-eye view
 The surrounding view of the vehicle from above.
- Front-side view
 The view around and ahead of the front passenger's side wheel.
- Front-wide view
 An approximately 180-degree view of the front of the vehicle.
- Rear-wide view
 An approximately 180-degree view of the rear of the vehicle.



To display the multiple views, the Around View® Monitor system uses cameras ① located in the front grill, on the vehicle's outside mirrors and one just above the vehicle's license plate.

AROUND VIEW® MONITOR SYSTEM OPERATION

With the ignition switch in the ON position, move the shift lever to the "R" (Reverse) position or press the **CAMERA** button to operate the Around View® Monitor.

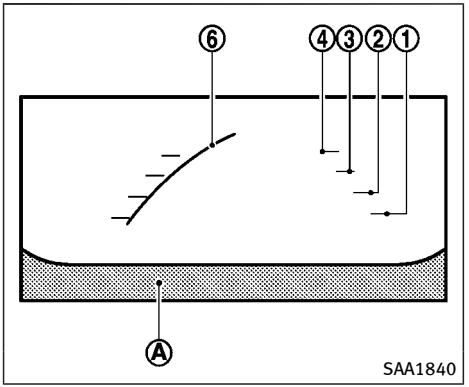
Available views

WARNING

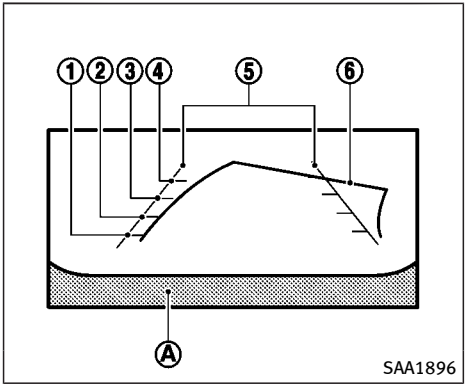
- **The distance guide lines and the vehicle width lines should be used as a reference only when the vehicle is on a paved, level surface. The apparent distance viewed on the monitor may be different than the actual distance between the vehicle and displayed objects.**
- **Use the displayed lines and the bird's-eye view as a reference. The lines and the bird's-eye view are greatly affected by the number of occupants, fuel level, vehicle position, road condition and road grade.**
- **If the tires are replaced with different sized tires, the predictive course lines and the bird's-eye view may be displayed incorrectly.**
- **When driving the vehicle up a hill, objects viewed in the monitor are further than they appear. When driving the vehicle down a hill, objects viewed in the monitor are closer than they appear.**
- **Objects in the monitor will appear visually opposite compared to when**

viewed in the rear view and outside mirrors.

- **Use the mirrors or actually look to properly judge distances to other objects.**
- **The distance between objects viewed in the rear view differs from actual distance because a wide-angle lens is used.**
- **On a snow-covered or slippery road, there may be a difference between the predictive course line and the actual course line.**
- **The vehicle width and predictive course lines are wider than the actual width and course.**
- **The displayed lines on the rear view will appear slightly off to the right because the rear view camera is not installed in the rear center of the vehicle.**



Front view



Rear view

Front and rear view:

Guiding lines that indicate the approximate vehicle width and distances to objects with reference to the vehicle body line Ⓐ are displayed on the monitor.

Distance guide lines

Indicate distances from the vehicle body.

- Red line ①: approx. 1.5 ft (0.5 m)
- Yellow line ②: approx. 3 ft (1 m)
- Green line ③: approx. 7 ft (2 m)
- Green line ④: approx. 10 ft (3 m)

Vehicle width guide lines ⑤

Indicate the vehicle width when backing up.

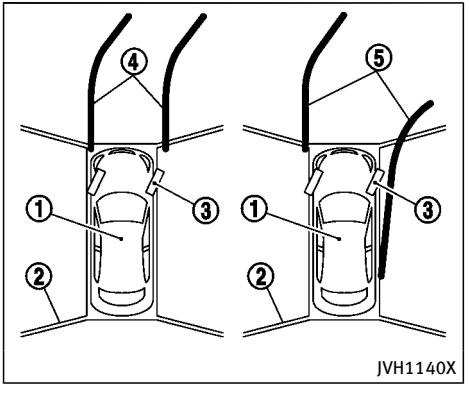
Predictive course lines ⑥

Indicate the predictive course when operating the vehicle. The predictive course lines will be displayed on the monitor when the steering wheel is turned. The predictive course lines will move depending on how much the steering wheel is turned and will not be displayed while the steering wheel is in the straight-ahead position.

The front view will not be displayed when the vehicle speed is above 6 MPH (10 km/h).

NOTE:

When the monitor displays the front view and the steering wheel turns about 90 degrees or less from the straight ahead position, both the right and left predictive course lines ⑥ are displayed. When the steering wheel turns about 90 degrees or more, a line is displayed only on the opposite side of the turn.



Bird's-eye view:

The bird's-eye view shows the overhead view of the vehicle, which helps confirm the vehicle position and the predictive course to a parking space.

The vehicle icon ① shows the position of the vehicle. Note that the size of the vehicle icon on the bird's-eye view may differ somewhat from the actual distance to the vehicle.

The areas that the cameras cannot cover ② are indicated in black.

The non-viewable area ② is highlighted in yellow for several seconds after the bird's-eye view is displayed. It will be shown only the first time after the ignition switch is placed in the "ON" position.

The driver can check the approximate direction and angle of the tire on the display by tire icon ③ when driving the vehicle forward or backward.

Predictive course lines (④ and ⑤) indicate the predictive course when operating the vehicle. The predictive course lines will be displayed on the monitor when the steering wheel is turned. The predictive course lines will move depending on how much the steering wheel is turned and will not be displayed while the steering wheel is in the straight-ahead position.

When the monitor displays the front view and the steering wheel turns about 90 degrees or less from the straight-ahead position, the two green predictive course lines ④ are shown in front of the vehicle.

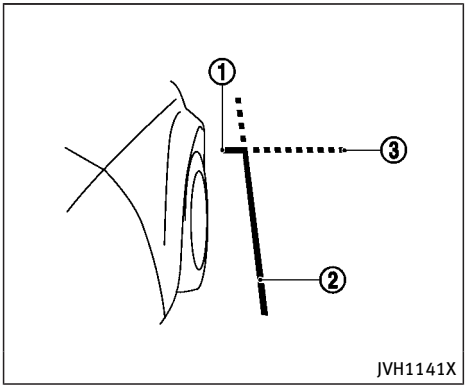
When the steering wheel turns about 90 degrees or more, one green predictive course line ⑤ is shown in front of the vehicle and the other green predictive course line ⑤ is shown at side of the vehicle.

When the monitor displays the rear view,

the predictive course lines are shown at back of the vehicle.

WARNING

- **Objects in the bird's-eye view will appear further than the actual distance.**
- **Tall objects, such as a curb or vehicle, may be misaligned or not displayed at the seam of the views.**
- **Objects that are above the camera cannot be displayed.**
- **The view for the bird's-eye view may be misaligned when the camera position alters.**
- **A line on the ground may be misaligned and is not seen as being straight at the seam of the views. The misalignment will increase as the line proceeds away from the vehicle.**
- **Tire angle display does not indicate the actual tire angle.**



Front-side view:

Guiding lines:

Guiding lines that indicate the width and the front end of the vehicle are displayed on the monitor.

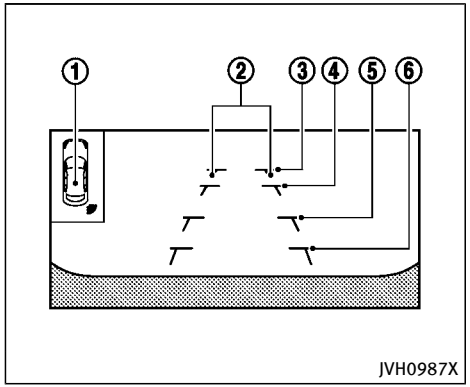
The front-of-vehicle line ① shows the front part of the vehicle.

The side-of-vehicle line ② shows the vehicle width including the outside mirrors.

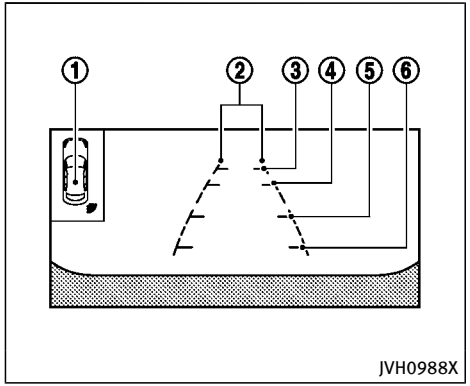
The extensions ③ of both the front ① and side ② lines are shown with a green dotted line.

CAUTION

The turn signal light may look like the side of- vehicle line. This is not a malfunction.



Front-wide view



Rear-wide view

Front-wide/rear-wide view:

The front-wide/rear-wide view shows a wider area on the entire screen and allows the checking of the blind corners on the right and left side. The front-wide/rear-wide view displays an approximately 180-degree area while the front view and the rear view display an approximately 150-degree area. The predictive course lines are not displayed when using the front-wide/rear-wide view.

Sonar indicator ①:

The sonar indicator ① will appear when a vehicle moves closer to an object.

Vehicle width guide lines ②:

Indicates the vehicle width.

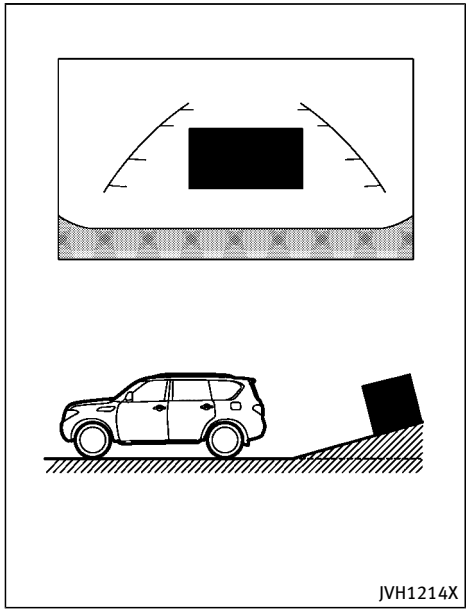
Distance guide lines:

Indicates distances from the vehicle body.

- Green line ③: approx. 10 ft (3 m)
- Green line ④: approx. 7 ft (2 m)
- Yellow line ⑤: approx. 3 ft (1 m)
- Red line ⑥: approx. 1.5 ft (0.5 m)

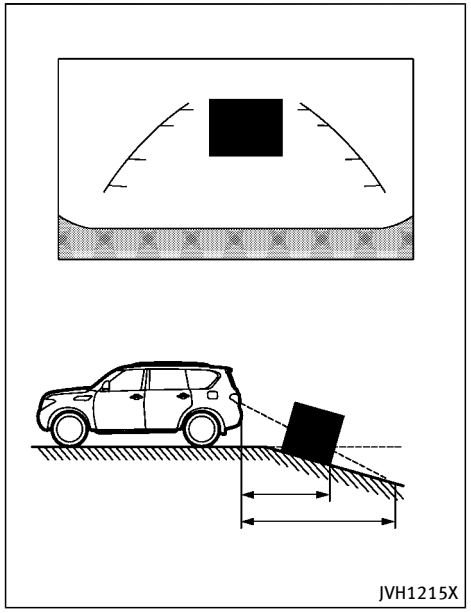
Difference between predicted and actual distances

The displayed guidelines and their locations on the ground are for approximate reference only. Objects on uphill or downhill surfaces or projecting objects will be actually located at distances different from those displayed in the monitor relative to the guidelines (refer to illustrations). When in doubt, turn around and view the objects as you are backing up, or park and exit the vehicle to view the positioning of objects behind the vehicle.



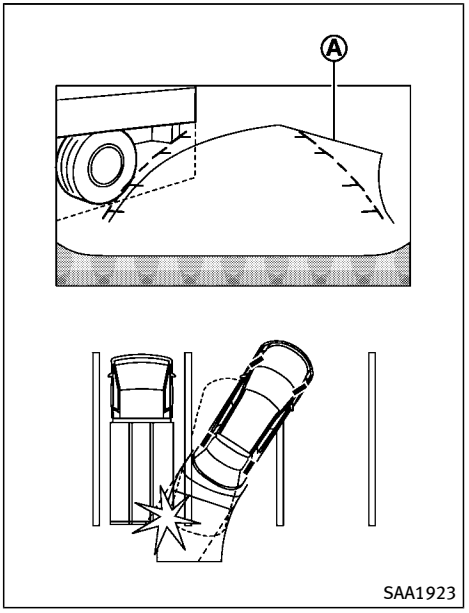
Backing up on a steep uphill:

When backing up the vehicle up a hill, the distance guide lines and the vehicle width guide lines are shown closer than the actual distance. Note that any object on the hill is further than it appears on the monitor.



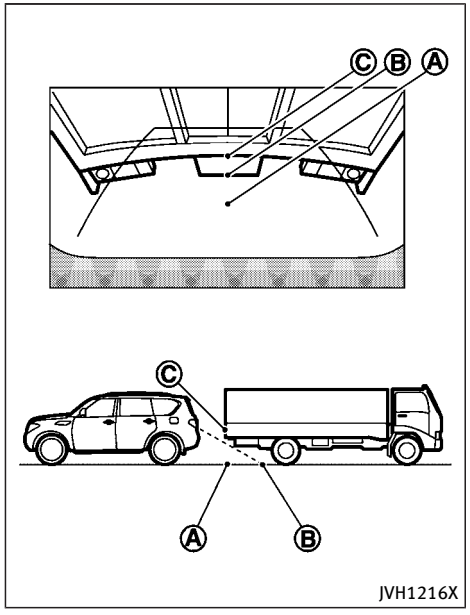
Backing up on a steep downhill:

When backing up the vehicle down a hill, the distance guide lines and the vehicle width guide lines are shown further than the actual distance. Note that any object on the hill is closer than it appears on the monitor.



Backing up near a projecting object:

The predictive course lines Ⓐ do not touch the object in the display. However, the vehicle may hit the object if it projects over the actual backing up course.



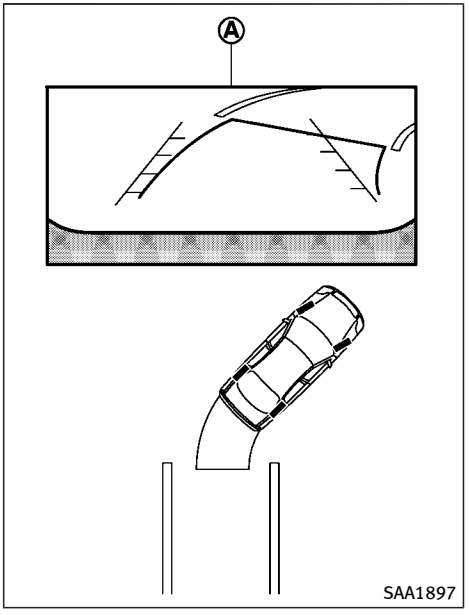
Backing up behind a projecting object:

The position Ⓒ is shown further than the position Ⓑ in the display. However, the position Ⓒ is actually at the same distance as the position Ⓐ. The vehicle may hit the object when backing up to the position Ⓐ if the object projects over the actual backing up course.

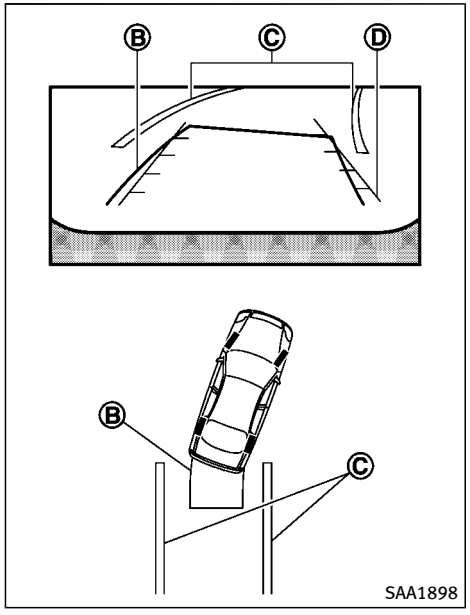
How to park with predictive course lines

WARNING

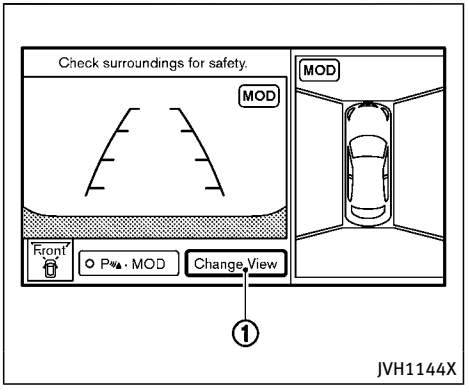
- **If the tires are replaced with different sized tires, the predictive course lines may be displayed incorrectly.**
- **On a snow-covered or slippery road, there may be a difference between the predictive course line and the actual course line.**



1. Visually check that the parking space is safe before parking your vehicle.
2. The rear view of the vehicle is displayed on the screen Ⓐ when the shift lever is moved to the “R” (Reverse) position.



3. Slowly back up the vehicle adjusting the steering wheel so that the predictive course lines Ⓑ enter the parking space Ⓒ.
4. Maneuver the steering wheel to make the vehicle width guide lines Ⓓ parallel to the parking space Ⓒ while referring to the predictive course lines.
5. When the vehicle is parked in the space completely, move the shift lever to the “P” (Park) position and apply the parking brake.



How to switch the display

The Around View® Monitor can display two split views as well as a single view of the front-wide view or rear-wide view. Push the **CAMERA** button, change the shift lever position, or select the “Change View” key ① to switch between the available views.

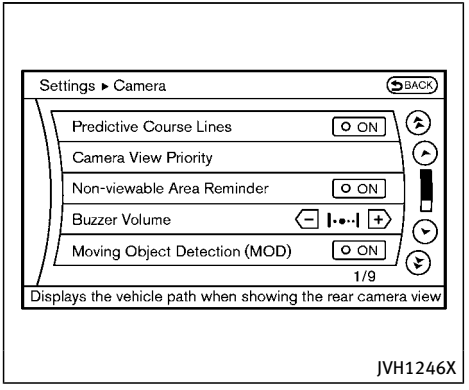
HOW TO ADJUST THE SCREEN VIEW

The display settings such as Display ON/OFF, Brightness, Tint, Color, Contrast and Black Level of the Around View® Monitor can be adjusted.

1. Push the **SETTING** button with the Around View® Monitor turned on.
2. Select an item you wish to adjust.
3. Adjust the level of the setting item using the INFINITI controller.

NOTE:

Do not adjust any of the display settings of the Around View® Monitor while the vehicle is moving. Make sure the parking brake is firmly applied.



AROUND VIEW® MONITOR SETTINGS

To set up the Around View® Monitor to your preferred settings, push the **SETTING** button, select the “Others” key and then select the “Camera” key.

Designs and items displayed on the screen may vary depending on the models.

Predictive Course Lines:

When this item is turned to ON, the predictive course line is displayed in the front and the rearview and bird’s-eye view.

Camera View Priority:

The view shown on the screen at the beginning of Around View® Monitor operation can be selected in order of priority.

Non-viewable Area Reminder:

With this item turned to ON, the non-viewable area is highlighted in yellow for several seconds after the bird’s-eye view is displayed. It will be shown only the first time after the ignition switch is placed in the “ON” position.

Buzzer Volume:

Adjust the volume of the buzzer.

Moving Object Detection (MOD):

See “Moving Object Detection (MOD)” (P.4-38).

Sonar:

See “Camera aiding sonar” (P.4-34).

Towing Mode:

See “Camera aiding sonar” (P.4-34).

Show Camera when Sonar Activate:

See “Camera aiding sonar” (P.4-34).

Sonar Sensitivity:

See “Camera aiding sonar” (P.4-34).

AROUND VIEW® MONITOR SYSTEM LIMITATIONS

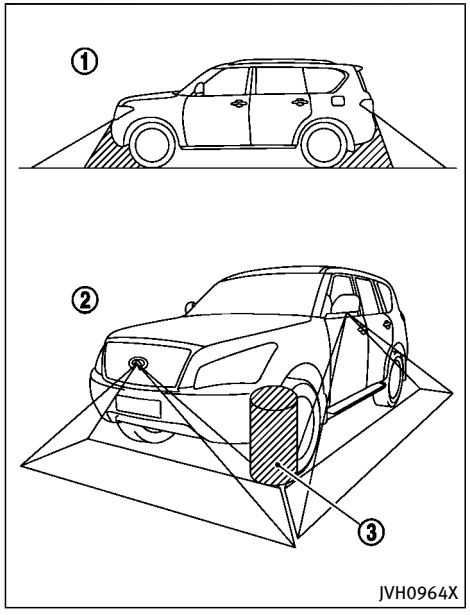
⚠ WARNING

Listed below are the system limitations for Around View® Monitor. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **Do not use the Around View® Monitor with the outside mirrors in the stored position, and make sure that the liftgate is securely closed when operating the vehicle using the Around View® Monitor.**
- **The apparent distance between objects viewed on the Around View® Monitor differs from the actual distance.**
- **The cameras are installed on the front grille, the outside mirrors and above the rear license plate. Do not put anything on the vehicle that covers the cameras.**
- **When washing the vehicle with high pressure water, be sure not to spray it around the cameras. Otherwise, water may enter the camera unit causing water condensation on the lens, a malfunction, fire or an electric shock.**
- **Do not strike the cameras. They are precision instruments. Doing so could cause a malfunction or cause damage resulting in a fire or an electric shock.**

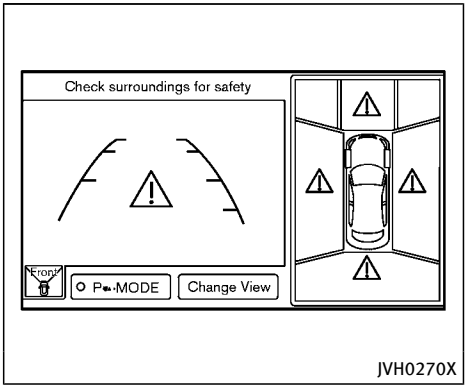
The following are operating limitations and do not represent a system malfunction:

- The screen displayed on the Around View® Monitor will automatically return to the previous screen 3 minutes after the **CAMERA** button has been pushed while the shift lever is in a position other than the "R" (Reverse) position.
- There may be a delay when switching between views.
- When the temperature is extremely high or low, the screen may not display objects clearly.
- When strong light directly shines on the camera, objects may not be displayed clearly.
- The screen may flicker under fluorescent light.
- The colors of objects on the Around View® Monitor may differ somewhat from the actual color of objects.
- Objects on the monitor may not be clear and the color of the object may differ in a dark environment.
- There may be differences in sharpness between each camera view of the bird's-eye view.
- If dirt, rain or snow accumulates on the camera, the Around View® Monitor may not display objects clearly. Clean the camera.
- Do not use wax on the camera lens. Wipe off any wax with a clean cloth that has been dampened with a diluted mild cleaning agent, then wipe with a dry cloth.



JVH0964X

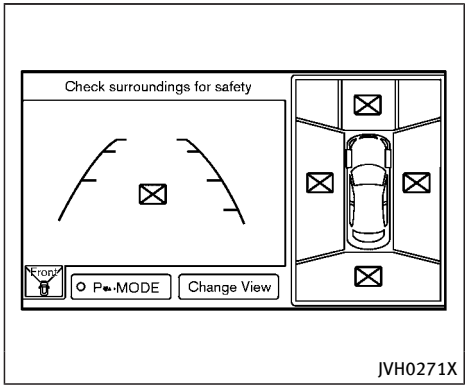
There are some areas where the system will not show objects and the system does not warn of moving objects. When in the front or the rear view display, an object below the bumper or on the ground may not be viewed ①. When in the bird's-eye view, a tall object near the seam ③ of the camera viewing areas will not appear in the monitor ②.



JVH0270X

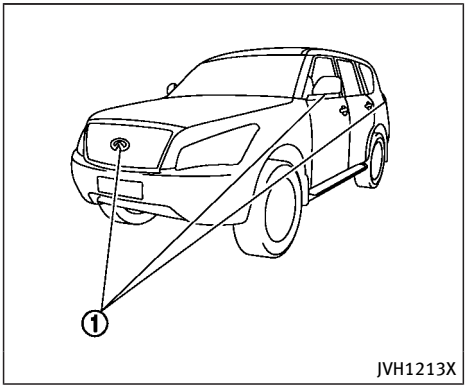
System temporarily unavailable

When the " ⚠ " icon is displayed on the screen, there will be abnormal conditions in the Around View® Monitor. This will not hinder normal driving operation but the system should be inspected. It is recommended you visit an INFINITI retailer.



JVH0271X

When the "⊠" icon is displayed on the screen, the camera image may be receiving temporary electronic disturbances from surrounding devices. This will not hinder normal driving operation but the system should be inspected. It is recommended you visit an INFINITI retailer.



JVH1213X

SYSTEM MAINTENANCE

CAUTION

- **Do not use alcohol, benzine or thinner to clean the camera. This will cause discoloration. To clean the camera, wipe with a cloth dampened with diluted mild cleaning agent and then wipe with a dry cloth.**
- **Do not damage the camera as the monitor screen may be adversely affected.**

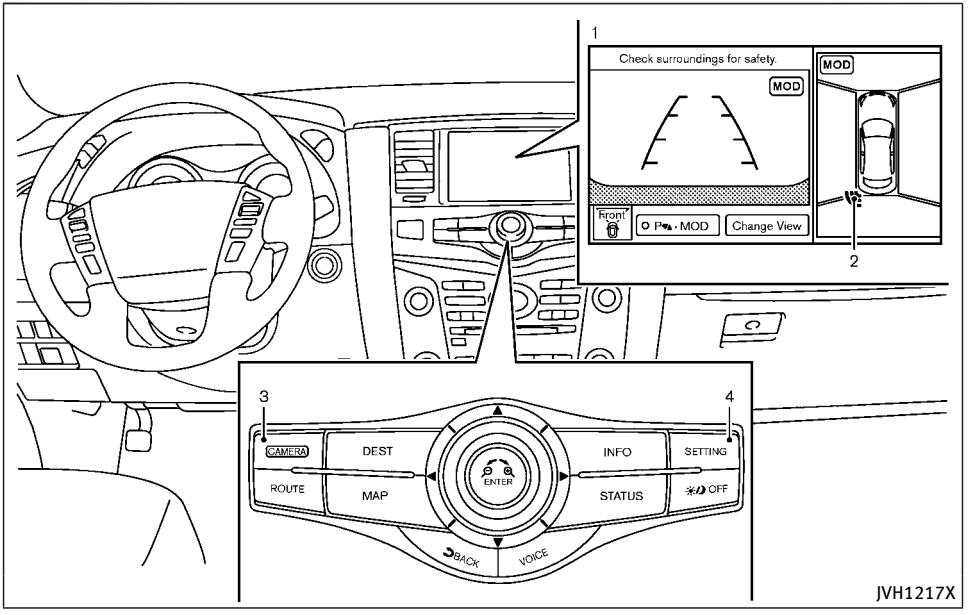
If dirt, rain or snow accumulates on any of the cameras ①, the Around View® Monitor may not display objects clearly. Clean the camera by wiping with a cloth dampened with a diluted mild cleaning agent and then wiping with a dry cloth.

WARNING

Failure to follow the warnings and instructions for proper use of the sonar function as outlined in this section could result in serious injury or death.

- **The sonar is a convenience feature. It is not a substitute for proper parking.**
- **This function is designed as an aid to the driver in detecting large stationary objects to help avoid damaging the vehicle.**
- **The driver is always responsible for safety during parking and other maneuvers.**
- **Always look around and check that it is safe to move before parking.**
- **Read and understand the limitations of the sonar as contained in this section.**

The sonar function helps to inform the driver of large stationary objects around the vehicle when parking by issuing an audible and visual alert.



1. Center display
2. Sonar indicator
3. CAMERA button
4. SETTING button

SONAR SYSTEM OPERATION

The system gives the tone for front objects when the shift lever is in the “D” (Drive) position and both front and rear objects when the shift lever is in the “R” (Reverse) position.

When the camera image is shown on the center display, the system shows the sonar indicator regardless of the shift lever position.

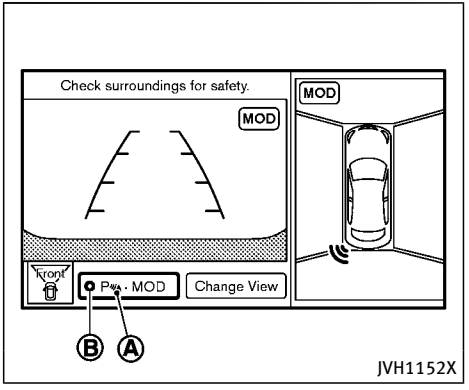
The system is deactivated at speeds above 6 MPH (10 km/h). It is reactivated at lower speeds.

The colors of the sonar indicators and the distance guide lines in the front, front-wide, rear and rear-wide views indicate different distances to the object.

When the objects are detected, the indicator (green) appears and blinks and the tone sounds intermittently. When the vehicle moves closer to the object, the color of the indicator turns yellow and the rate of the blinking and the rate of the tone increase. When the vehicle is very close to the object, the indicator stops blinking and turns red, and the tone sounds continuously.

The intermittent tone will stop after 3 seconds when an object is detected by only the sonar and the distance does not change.

The tone will stop when the object is no longer near the vehicle.



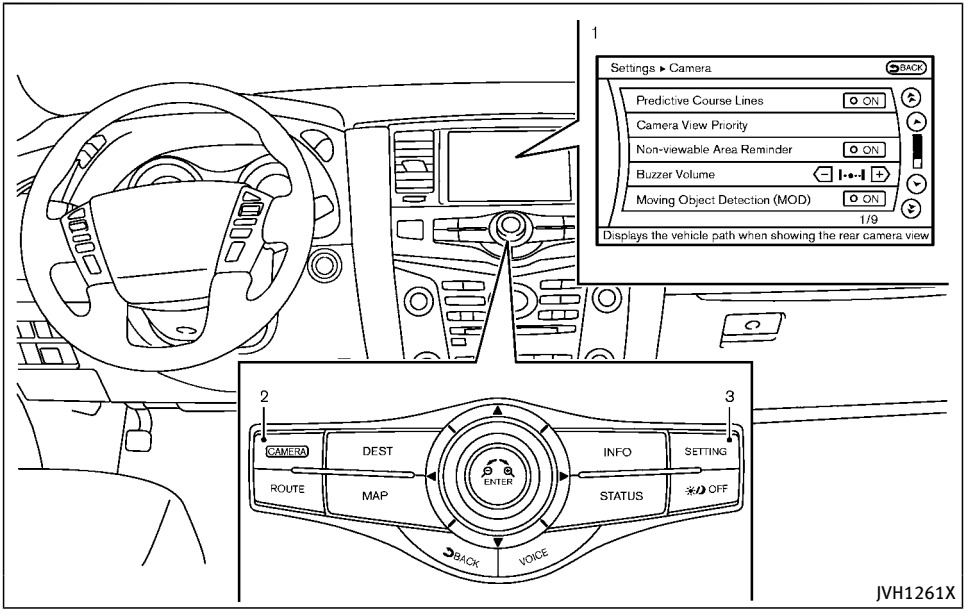
TURNING ON AND OFF THE SONAR FUNCTION

When the “” key Ⓐ is selected, the indicator Ⓑ will turn off and the sonar will be turned off temporarily. The Moving Object Detection (MOD) system will also be turned off at the same time. (See “Moving Object Detection (MOD)” (P.4-38).) When the key Ⓐ is selected again, the indicator will turn on and the sonar will turn back on.

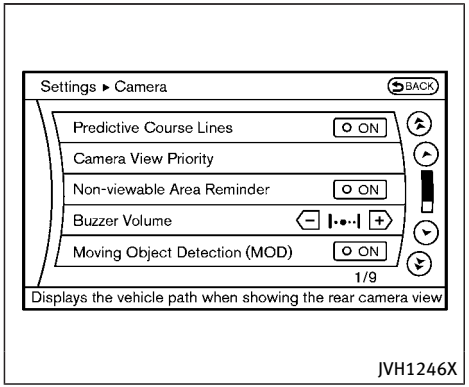
In the below cases, the sonar will be turned back on automatically:

- When the shift lever is placed in the “R” (Reverse) position.
- When the **CAMERA** button is pressed and a screen other than the camera view is shown on the display.
- When vehicle speed decreases below approximately 6 MPH (10 km/h).
- When the ignition switch is placed in the “OFF” position and turned back to the “ON” position again.

To prevent the sonar system from activating altogether, use the “Camera” menu. See “Sonar function settings” (P.4-37).



1. Center display
2. CAMERA button
3. SETTING button



Sonar function settings

To set up the sonar function to your preferred settings, push the **SETTING** button, select the “Others” key and then select the “Camera” key on the center display.

Designs and items displayed on the screen may vary depending on the models.

Sonar:

When this item is turned ON, the front and rear sonar is activated. When this item is turned to OFF (indicator turns off), the front and rear sonar is deactivated. The amber markers are displayed at the corners of the vehicle icon and the sonar icon will disappear from the MOD. The next time the ignition switch is placed in the “ON” position, “Sonar is OFF” is displayed briefly.

Towing Mode:

When this item is turned ON, only the rear sonar is OFF. The amber markers are displayed at the rear corners of the vehicle icon.

Show Camera when Sonar Activate:

When this item is turned ON, the camera view is automatically shown on the display in the case that the distance to the objects measured by the sonar is becoming short.

Sonar Sensitivity:

Adjust the sensitivity level of the sensor higher (right) or lower (left).

SONAR SYSTEM LIMITATIONS

WARNING

Listed below are the system limitations for the sonar function. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **Inclement weather or ultrasonic sources such as an automatic car wash, a truck’s compressed-air brakes or a pneumatic drill may affect the function of the system, including reduced performance or a false activation.**
- **The system is not designed to prevent contact with small or moving objects.**
- **The system will not detect small objects below the bumper, and may not detect objects close to the bumper or on the ground.**
- **The system may not detect the following objects:**
 - **— Fluffy objects such as snow, cloth, cotton, grass or wool.**
 - **— Thin objects such as rope, wire or chain.**
 - **— Wedge-shaped objects.**
- **If your vehicle sustains damage to the bumper fascia, leaving it misaligned or bent, the sensing zone may be altered causing inaccurate measurement of objects or false alarms.**

CAUTION

Excessive noise (such as audio system volume or an open vehicle window) will interfere with the tone and it may not be heard.

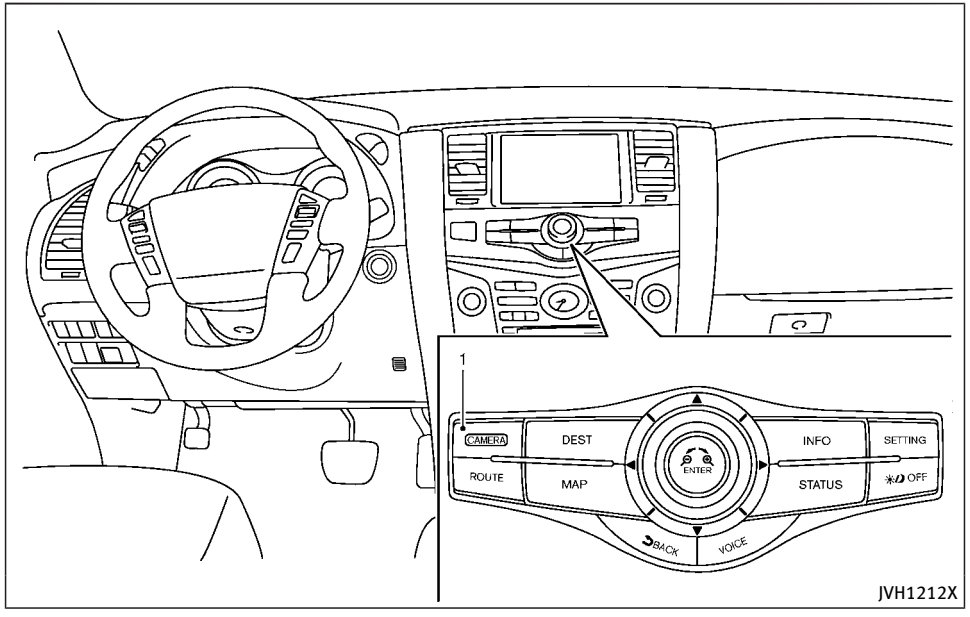
SYSTEM TEMPORARILY UNAVAILABLE

When the amber markers are displayed at the corners of the vehicle icon and the function cannot be activated from the Camera setting menu (the setting items are grayed out), the sonar system may be malfunctioning.

SYSTEM MAINTENANCE

CAUTION

Keep the surface of the sonar sensors (located on the front and rear bumper fascia) free from accumulations of snow, ice and dirt. Do not scratch the surface of the sonar sensors when cleaning. If the sensors are covered, the accuracy of the sonar function will be diminished.



1. **CAMERA** button

WARNING

Failure to follow the warnings and instructions for proper use of the Moving Object Detection system could result in serious injury or death.

- **The MOD system is not a substitute for proper vehicle operation and is not designed to prevent contact with the**

objects surrounding the vehicle. When maneuvering, always use the outside mirror and rearview mirror and turn and check the surrounding to ensure it is safe to maneuver.

- **The system is deactivated at speeds above 6 MPH (10 km/h). It is reactivated at lower speeds.**
- **The MOD system is not designed to detect the surrounding stationary objects.**

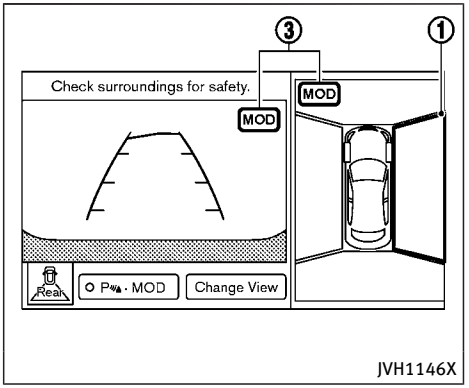
The Moving Object Detection (MOD) system can inform the driver of the moving objects surrounding the vehicle when driving out of garages, maneuvering into parking lots and in other such instances.

The MOD system detects moving objects by using image processing technology on the image shown on the display.

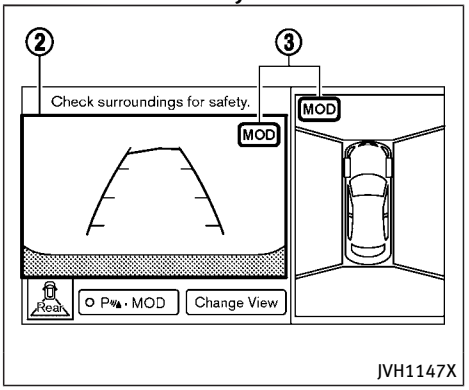
MOD SYSTEM OPERATION

The MOD system will turn on automatically under the following conditions:

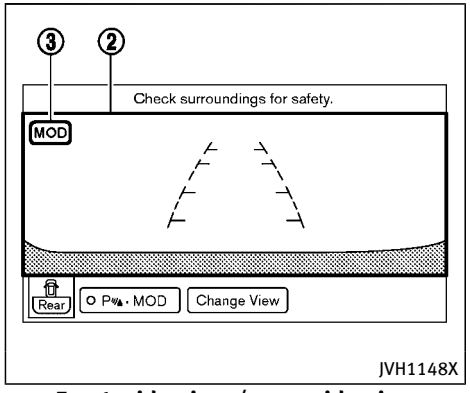
- When the shift lever is in the “R” (Reverse) position.
- When the **CAMERA** button is pushed to activate the camera view on the display.
- When vehicle speed decreases below approximately 5 MPH (8 km/h) .
- When the ignition switch is placed in the “OFF” position and then back to the “ON” position.



Bird’s-eye view



Front view / rear view



Front-wide view / rear-wide view

When the MOD system detects moving objects near the vehicle, the yellow frame will be displayed on the view where the objects are detected and a chime will sound once. While the MOD system continues to detect moving objects, the yellow frame continues to be displayed.

In the bird's-eye view, the yellow frame ① is displayed on each camera image (front, rear, right, left) depending on where moving objects are detected.

The yellow frame ② is displayed on each view in the front view, front-wide view, rear view and rear-wide view modes.

While the sonar is beeping, the MOD system does not chime.

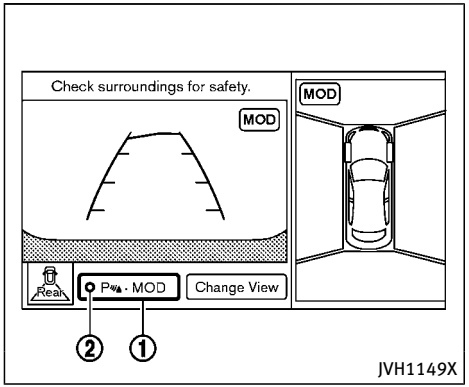
A blue MOD icon ③ is displayed in the view where the MOD system is operative. A gray MOD icon ③ is displayed in the view where the MOD system is not operative.

If the MOD system is turned off, the MOD icon ③ is not displayed.

The MOD system operates in the following conditions when the camera view is displayed:

- When the shift lever is in the "P" (Park) or "N" (Neutral) position and the vehicle is stopped, the MOD system detects the moving objects in the bird's-eye view. The MOD system will not operate if the outside mirror is moving in or out or if either door is opened.
- When the shift lever is in the "D" (Drive) position and the vehicle speed is below approximately 5 MPH (8 km/h), the MOD system detects moving objects in the front view or front-wide view.
- When the shift lever is in the "R" (Reverse) position and the vehicle speed is below approximately 5 MPH (8 km/h), the MOD system detects moving objects in the rear view or rear-wide view. The MOD system will not operate if the liftgate is open.

The MOD system does not detect moving objects in the front-side view. The MOD icon is not displayed on the screen when in this view.



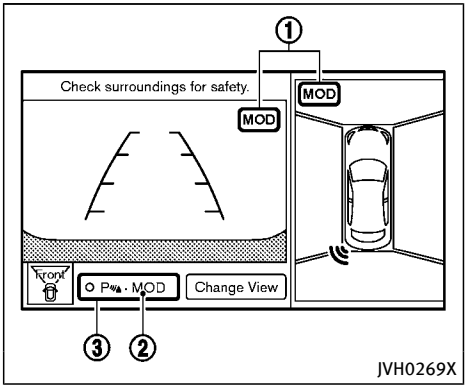
TURNING ON AND OFF THE MOD SYSTEM

When the MOD is active and the "P·MOD" (1) is selected, the MOD system will turn off temporarily and the indicator (2) will turn off. (A camera-aiding sonar will turn off at the same time.) When the "P·MOD" (1) is selected again, the indicator will turn on and the MOD system will turn back on.

To enable or disable the MOD, use the "Camera" menu. See "MOD function setting" (P.4-41).

MOD function setting

To activate or deactivate the MOD function, push the **SETTING** button, select "Others" key, select the "Camera" key on the center display, and then select the "Moving Object Detection (MOD)" key.



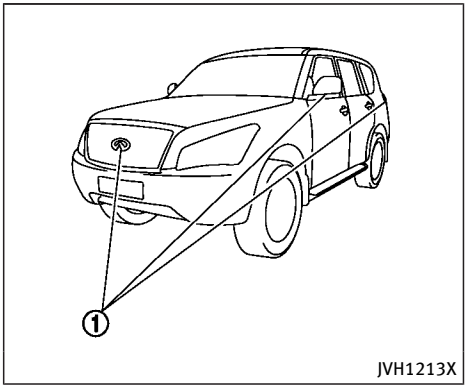
When this item is turned on, the MOD is activated. When this item is turned off (indicator turns off), the MOD system is deactivated. When the MOD system is deactivated, "MOD" (2) will disappear on the P·MOD (3) and the MOD icon (1) will disappear as well. When the sonar is turned off on the setting menu as well, the P·MOD (3) will disappear.

MOD SYSTEM LIMITATIONS

WARNING

Listed below are the system limitations for MOD. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **Do not use the MOD system when towing a trailer. The system may not function properly.**
- **Excessive noise (for example, audio system volume or open vehicle window) will interfere with the chime sound, and it may not be heard.**
- **The MOD system performance will be limited according to environmental conditions and surrounding objects such as:**
 - **— When there is low contrast between background and the moving objects.**
 - **— When there is blinking source of light.**
 - **— When strong light such as another vehicle's headlight or sunlight is present.**
 - **— When camera orientation is not in its usual position, such as when mirror is folded.**
 - **— When there is dirt, water drops or snow on the camera lens.**
 - **— When the position of the moving objects in the display is not changed.**
- **The MOD system might detect flowing water droplets on the camera lens, white smoke from the muffler, moving shadows, etc.**
- **The MOD system may not function properly depending on the speed, direction, distance or shape of the moving objects.**
- **If your vehicle sustains damage to the parts where the camera is installed, leaving it misaligned or bent, the sensing zone may be altered and the MOD system may not detect objects properly.**
- **When the temperature is extremely high or low, the screen may not display objects clearly. This is not a malfunction.**



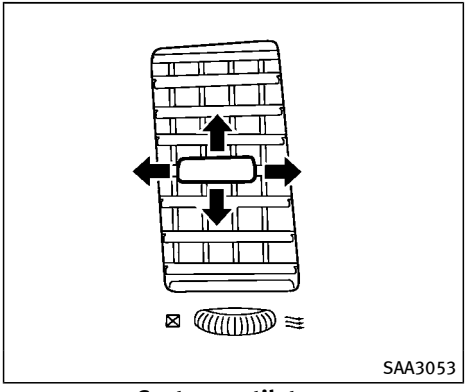
SYSTEM MAINTENANCE

CAUTION

- **Do not use alcohol, benzine or thinner to clean the camera. This will cause discoloration. To clean the camera, wipe with a cloth dampened with diluted mild cleaning agent and then wipe with a dry cloth.**
- **Do not damage the camera as the monitor screen may be adversely affected.**

If dirt, rain or snow accumulates on any of the cameras ①, the MOD system may not operate properly. Clean the camera by wiping with a cloth dampened with a diluted mild cleaning agent and then wiping with a dry cloth.

VENTILATORS

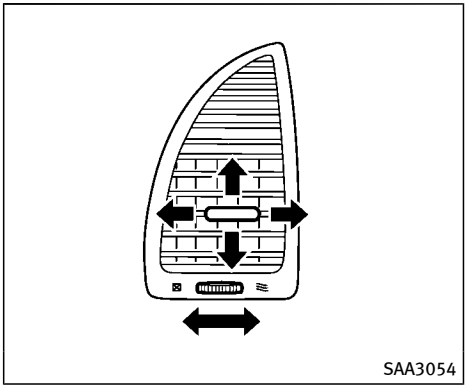


Center ventilators

Open/close the ventilators by moving the control to either direction.

- ⊠ : This symbol indicates that the ventilators are closed. Moving the side control to this direction will close the ventilators.
- ≋ : This symbol indicates that the ventilators are open. Moving the side control to this direction will open the ventilators.

Adjust the air flow direction of the ventilators by moving the center knob (up/down, left/right) until the desired position is achieved.

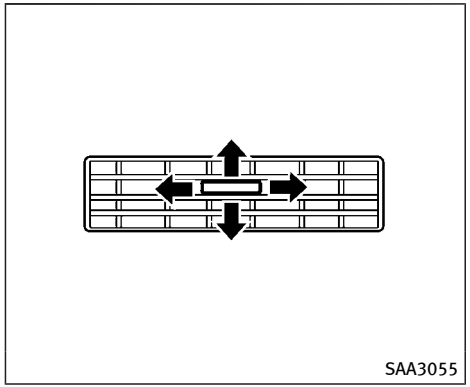


Side ventilators

Open/close the ventilators by moving the control to either direction.

- ⊠ : This symbol indicates that the ventilators are closed. Moving the side control to this direction will close the ventilators.
- ≋ : This symbol indicates that the ventilators are open. Moving the side control to this direction will open the ventilators.

Adjust the air flow direction of the ventilators by moving the center knob (up/down, left/right) until the desired position is achieved.



Rear ventilators

Open/close the ventilators by moving the control to either direction.

Adjust the air flow direction of the ventilators by moving the center knob (up/down, left/right) until the desired position is achieved.

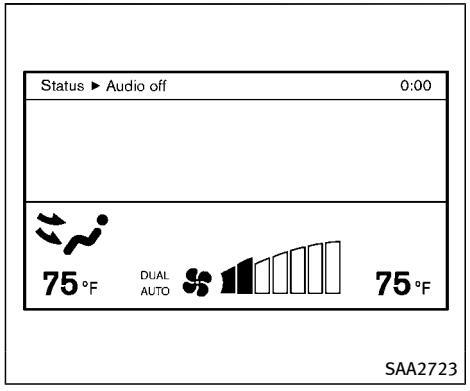
WARNING

- **The air conditioner cooling function operates only when the engine is running.**
- **Do not leave children or adults who would normally require the support of others alone in your vehicle. Pets should not be left alone either. On hot, sunny days, temperatures in a closed vehicle could quickly become high enough to cause severe or possibly fatal injuries to people or animals.**
- **Do not use the recirculation mode for long periods as it may cause the interior air to become stale and the windows to fog up.**
- **Do not adjust the heating and air conditioning controls while driving so that full attention may be given to vehicle operation.**

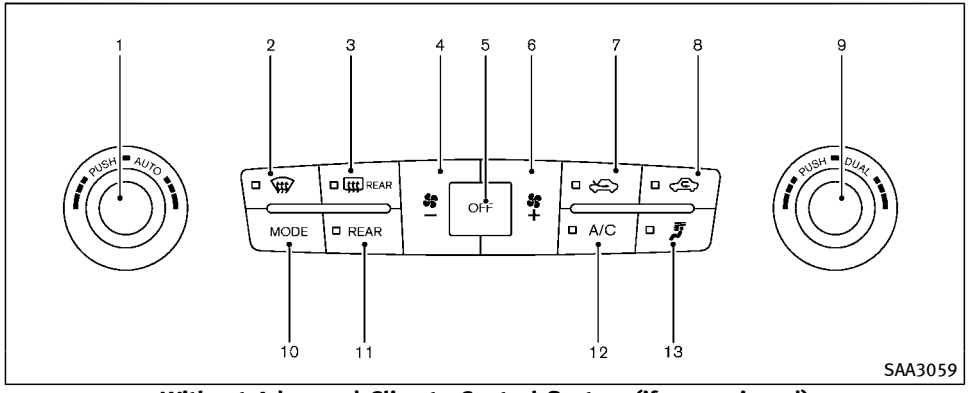
Start the engine and operate the automatic climate control system.

NOTE:

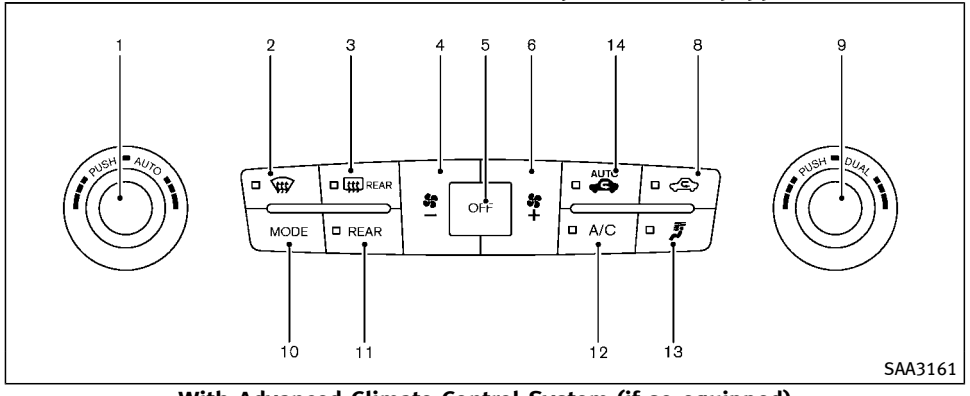
- **Odors from inside and outside the vehicle can build up in the air conditioner unit. Odor can enter the passenger compartment through the vents.**
- **When parking, set the heater and air conditioner controls to turn off air recirculation to allow fresh air into the passenger compartment. This should help reduce odors inside the vehicle.**



When the STATUS button is pushed, the automatic climate control status screen will appear. (See “How to use STATUS button” (P.4-7).)



Without Advanced Climate Control System (if so equipped)



With Advanced Climate Control System (if so equipped)

1. “AUTO” automatic climate control ON button/Temperature control dial (driver side)
2. “ ” front defroster button
3. “ ” rear window defroster button (See “Rear window and outside mirror defroster switch” (P.2-38).)
4. “ - ” fan speed decrease button
5. “OFF” button for climate control system
6. “ + ” fan speed increase button
7. “ ” intake air control button
8. “ ” air recirculation button
9. “DUAL” zone control ON/OFF button/ Temperature control dial (passenger side)
10. “MODE” manual air flow control button
11. “REAR” control button
12. “A/C” air conditioner ON/OFF button
13. “ ” upper vent button
14. “ ” auto-recirculation button

AUTOMATIC CLIMATE CONTROL

Automatic operation

Cooling and/or dehumidified heating (AUTO):

This mode may be used all year round. The system works automatically to control the inside temperature, air flow distribution and fan speed after the preferred temperature is set manually.

1. Push the “AUTO” button on. (The indicator on the button will illuminate and AUTO will be displayed.)
2. Turn the temperature control dial (driver side) to set the desired temperature.

 The temperature of the passenger compartment will be maintained automatically. Air flow distribution and fan speed will also be controlled automatically.
3. You can individually set driver and front passenger side temperature using each temperature control button. When the “DUAL” button is pushed or the passenger side temperature control button is turned, the DUAL indicator will come on. To turn off the passenger side temperature control, push the “DUAL” button.
4. To turn off the climate control system, push the “OFF” button.

A visible mist may be seen coming from the ventilators in hot, humid conditions as the air is cooled rapidly. This does not indicate a malfunction.

Dehumidified defrosting or defogging:

1. Push the “ ” front defroster button. (The indicator light on the button will illuminate.)
2. Turn the temperature control dial to set the desired temperature.

- To quickly remove ice from the outside of the windows, push the fan speed increase button “ + ” and set it to the maximum position.
- As soon as possible after the windshield is clean, push the “AUTO” button to return to the auto mode.
- When the “ ” front defroster button is pushed, the air conditioner will automatically be turned on at outside temperatures above 23°F (–5°C) to defog the windshield, and the air recirculate mode will automatically be turned off. Outside air is drawn into the passenger compartment to improve the defogging performance.

Manual operation

Fan speed control:

Push the fan speed increase “ + ” or decrease “ - ” buttons to manually control the fan speed.

Push the “AUTO” button to return to automatic control of the fan speed.

Temperature control:

Turn the temperature control dial to set the desired temperature.

Air flow control:

Pushing the “MODE” manual air flow control button selects the air outlet to:

- : Air flows from center and side ventilators.
- : Air flows from center and side ventilators and foot outlets.
- : Air flows mainly from foot outlets.
- : Air flows from defroster and foot outlets.

Air intake control (Without Advanced Climate Control System):

- Push the intake air control button to recirculate interior air inside the vehicle. The indicator light on the “ ”

button will illuminate.

The air recirculation mode cannot be activated when the air conditioner is in the front defrosting mode “ ”.

- Push the intake air control button (the indicator on the button will turn on) to draw outside air into the passenger compartment.
- To control the air intake automatically, push and hold either the “” air recirculation button or the “” outside air circulation button (whichever indicator light is illuminated). The indicator lights (both air recirculation and outside air circulation buttons) will flash twice, and then the air intake will switch to automatic control.

Air intake control (With Advanced Climate Control System):

- Push the intake air control button to recirculate interior air inside the vehicle. The indicator light on the “” button will illuminate.

 The air recirculation mode cannot be activated when the air conditioner is in the front defrosting mode “ ”.
- Push the air recirculation button (the indicator on the button will turn off) to draw outside air into the passenger compartment.
- To control the air intake automatically, push the “AUTO” auto-recirculation button. The indicator light on the “AUTO”auto-recirculation button will illuminate.

Turning the system off

Push the OFF button.

Upper vent system

When the upper vent “ ” button is pushed, the air flow against the driver’s or passenger’s upper body becomes gentle. The indicator light on the button will illuminate.

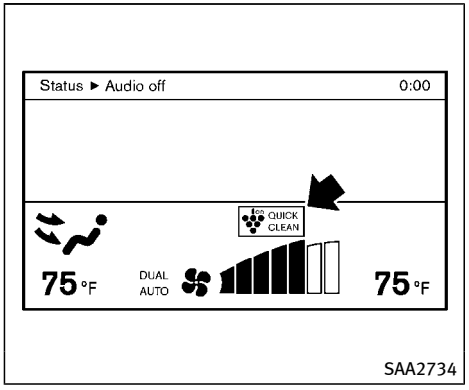
In this mode, air from the upper ventilator flows in order to control the cabin temperature without blowing air directly on the occupants.

Push the upper vent “ ” button when you want the air conditioner to work quickly.

To turn the system off, push the upper vent “ ” button to turn the indicator light off.

Advanced Climate Control System (if so equipped)

The Advanced Climate Control System keeps the air inside of the vehicle clean, using the ion control and the automatic air intake control with exhaust gas detecting sensor.



Ion control:

This unit generates highly concentrated Plasmacluster® ions into the air blown from the ventilators and reduces odor absorbed into the interior trim.

The high-density Plasmacluster® ions generated in the air conditioner's air stream not only suppress airborne bacteria and reduce the adherence of odors to the interior trim, but also have a proven skin moisture preserving effect.

When the air conditioner is turned on, the system generates Plasmacluster® ions automatically.

The amount of Plasmacluster® ions increases according to the amount of air flow. When the air flow is high, "" is displayed on the screen and when the air flow is low, the indication in the screen changes to "".

Plasmacluster® and Plasmacluster® ion are registered trademarks of Sharp Corporation.

Exhaust gas/outside odor detection sensor:

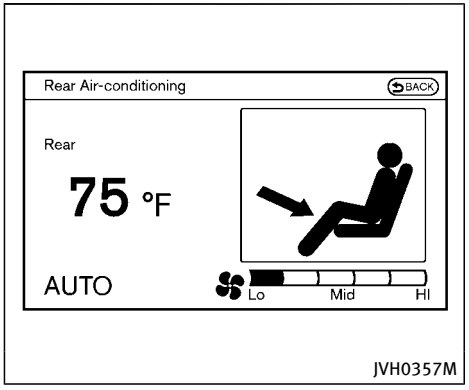
This vehicle is equipped with an exhaust gas detection sensor. When the automatic intake air control is ON, the sensor detects industry odors such as pulp or chemicals, and exhaust gas such as gasoline or diesel. When such odors or gas are detected, the system automatically changes from the outside air circulation mode to the recirculation mode.

When the auto-recirculation button is pushed under the following conditions, the indicator light on the " " button will illuminate and the exhaust gas detection sensor will turn on.

- The air flow control is not in the front defroster mode (the indicator light on the " " front defroster button is turned off).
- The outside temperature is about 32°F (0°C) or more.

When the automatic intake air control is ON, for the first 5 minutes, the recirculation mode is selected to prevent dust, dirt and pollen from entering the vehicle and cleans the air inside of the vehicle with positive and negative ions that are emitted from the ventilator.

After the 5 minutes, the sensor detects exhaust gas and automatically alternates between the recirculation mode and outside air circulation mode.



Rear automatic air conditioning system

To control the rear automatic air conditioning system with the front air conditioner control panel, push the “REAR” button. The front display will switch to the rear air conditioner screen.

The rear automatic air conditioning system can be adjusted with the front air conditioner control panel when the rear air conditioner screen is displayed.

When the rear automatic air conditioning system is operating, the REAR indicator light illuminates.

Push the “REAR” button one more time, the front display will return to the normal screen.

The rear air conditioning system can also be adjusted by using the rear air conditioner control panel located on the rear of the center console. (See “Rear air conditioner control panel” (P.4-52).)

This table shows the relation between the front air conditioner control panel and the rear air conditioner control panel.

	Front display status	
	Rear air conditioner screen is displayed	Rear air conditioner screen is not displayed (nomal screen)
Front air conditioner control panel	Only the rear air conditioner can be operated	Only the front air conditioner can be operated
Rear air conditioner control panel	Cannot be operated	Only the rear air conditioner can be operated

Automatic operation:

1. Push the “REAR” button to display the rear air conditioner screen on the front display.
2. Push the “AUTO” button. (The “AUTO” will appear on the display.)
3. Turn the temperature control dial (driver’s side) to set the desired temperature.

Cooling and dehumidified heating:

1. Push the “REAR” button to display the rear air conditioner screen on the front display.
2. Turn the temperature control dial (driver’s side) to set the desired temperature.
3. Switch the air flow mode to by pressing the “MODE” button.
4. Push the “REAR” button one more time to return to the normal screen. If the A/C indicator light does not illuminate, push the “A/C” button. (The A/C indicator light will turn on.)

NOTE:

When the front air conditioner is off, the rear automatic air conditioning system only operates the fan. When you would like to use the air conditioner, be sure to push the “A/C” button on the front air conditioner control panel to turn on the A/C indicator light.

Manual operation:

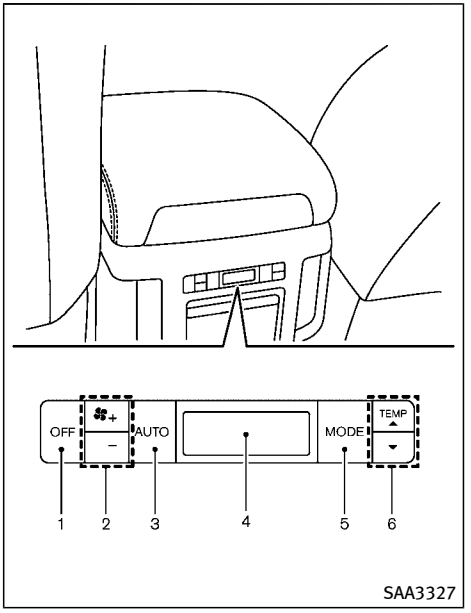
- **Temperature control**
 Turn the temperature control dial to set the desired temperature.
- **Fan speed control**
 Push the fan speed control "+" button or "-" button to manually control the fan speed.
- **Air flow control**
 Push the "MODE" button to change the air flow mode.

: The air outlet is fixed at foot level.
: The air outlet is fixed at both the head and foot level.
: The air outlet is fixed at the head level.

Turning the system off:

Use the following method to turn the rear automatic air conditioning system off.

- Operating the front air conditioner control panel:
 Push the "OFF" button on the front air conditioner control panel when the rear air conditioner screen is displayed on the front display.
- Operating the rear air conditioner control panel:
 Push the "OFF" button on the rear air conditioner control panel when the rear air conditioner screen is not displayed on the front display.



1. "OFF" button
2. Fan speed control button
3. "AUTO" button
4. Display
5. "MODE" button
6. "TEMP" button

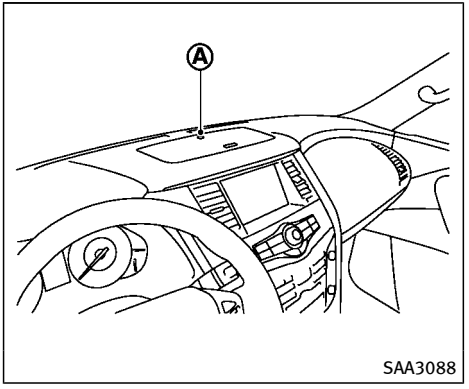
Rear air conditioner control panel:

Rear control buttons:

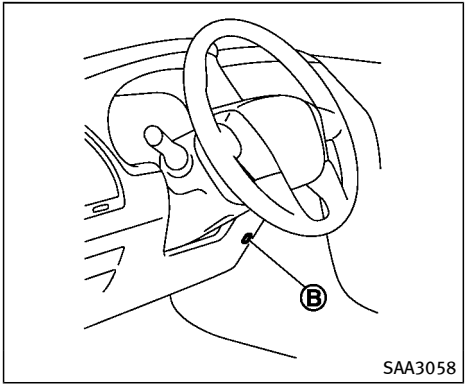
The rear seat passengers can adjust the rear automatic air conditioning system using the control switches at the rear of the center console.

The rear control buttons do not function when the rear air conditioner screen is shown on the front display. To activate the rear control buttons, push the “REAR” button on the front air conditioner control panel and switch the screen on the front display.

- “OFF” button:
 Rear automatic air conditioning system off.
- “ ” button:
 Rear fan speed control up/down
- “AUTO” button:
 Rear automatic air conditioning system on, AUTO mode on
- “MODE” button:
 Rear air flow control change
- “TEMP” button:
 Rear temperature control up/down



SAA3088



SAA3058

OPERATING TIPS

When the engine coolant temperature and outside air temperature are low, the air flow from the foot outlets may not operate. However, this is not a malfunction. After the coolant temperature warms up, the air flow from the foot outlets will operate normally.

The sensors Ⓐ and Ⓑ located on the instrument panel help maintain a constant temperature. Do not put anything on or around the sensors.

LINKING INTELLIGENT KEY

The Climate control system settings can be memorized for each Intelligent Key. For more details, see “Setting memory function” (P.3-36).

IN-CABIN MICROFILTER

Models without Advanced Climate Control System:

The climate control system is equipped with an in-cabin microfilter which collects dirt, pollen, dust, etc.

Models with Advanced Climate Control System:

The climate control system is equipped

with a natural grape seed polyphenol filter which collects and neutralizes dirt, pollen, dust, etc.

To make sure the air conditioner heats, defogs, and ventilates efficiently, replace the filter in accordance with the specified maintenance intervals listed in the "9. Maintenance and schedules" section. If replacement is required, it is recommended you visit an INFINITI retailer for this service.

The filter should be replaced if the air flow decreases significantly or if windows fog up easily when operating the heater or air conditioner.

SERVICING CLIMATE CONTROL

The climate control system in your INFINITI is charged with a refrigerant designed with the environment in mind. **This refrigerant will not harm the earth's ozone layer.** However, special charging equipment and lubricant are required when servicing your INFINITI air conditioner. Using improper refrigerants or lubricants will cause severe damage to your climate control system. (See "Capacities and recommended fluids/lubricants" (P.10-2) for climate control system refrigerant and lubricant recommendations.)

Your INFINITI retailer will be able to service your environmentally friendly climate control system.

WARNING

The system contains refrigerant under high pressure. To avoid personal injury, any air conditioner service should be done only by an experienced technician with the proper equipment.

AUDIO OPERATION PRECAUTIONS

Radio

Push the ignition switch to the ACC or ON position and push the radio band select button to turn on the radio. If you listen to the radio with the engine not running, the ignition switch should be pushed to the ACC position.

Radio reception is affected by station signal strength, distance from radio transmitter, buildings, bridges, mountains and other external influences. Intermittent changes in reception quality normally are caused by these external influences.

Using a cellular phone in or near the vehicle may influence radio reception quality.

Radio reception:

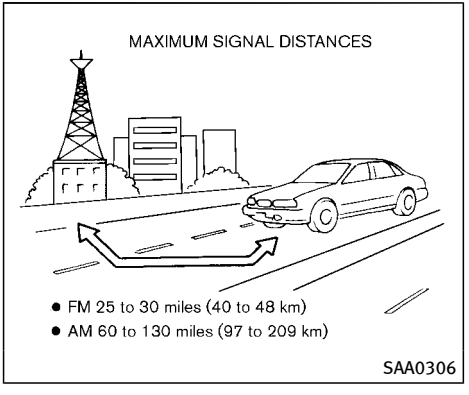
Your INFINITI radio system is equipped with state-of-the-art electronic circuits to enhance radio reception. These circuits are designed to extend reception range, and to enhance the quality of that reception.

However there are some general characteristics of both FM and AM radio signals that can affect radio reception quality in a moving vehicle, even when the finest

equipment is used. These characteristics are completely normal in a given reception area, and do not indicate any malfunction in your INFINITI radio system.

Reception conditions will constantly change because of vehicle movement. Buildings, terrain, signal distance and interference from other vehicles can work against ideal reception. Described below are some of the factors that can affect your radio reception.

Some cellular phones or other devices may cause interference or a buzzing noise to come from the audio system speakers. Storing the device in a different location may reduce or eliminate the noise.



FM radio reception:

Range: FM range is normally limited to 25 to 30 miles (40 to 48 km), with monaural (single station) FM having slightly more range than stereo FM. External influences may sometimes interfere with FM station reception even if the FM station is within 25 miles (40 km). The strength of the FM signal is directly related to the distance between the transmitter and receiver. FM signals follow a line-of-sight path, exhibiting many of the same characteristics as light. For example they will reflect off objects.

Fade and drift: As your vehicle moves away from a station transmitter, the signals will tend to fade and/or drift.

Static and flutter: During signal interference from buildings, large hills or due to antenna position, usually in conjunction with increased distance from the station transmitter, static or flutter can be heard. This can be reduced by lowering the treble setting to reduce the treble response.

Multipath reception: Because of the reflective characteristics of FM signals, direct and reflected signals reach the receiver at the same time. The signals may cancel each other, resulting in momentary flutter or loss of sound.

AM radio reception:

AM signals, because of their low frequency, can bend around objects and skip along the ground. In addition, the signals can be bounced off the ionosphere and bent back to earth. Because of these characteristics. AM signals are also subject to interference as they travel from transmitter to receiver.

Fading: Occurs while the vehicle is passing through freeway underpasses or in areas with many tall buildings. It can also occur for several seconds during ionospheric turbulence even in areas where no obsta-

cles exist.

Static: Caused by thunderstorms, electrical power lines, electric signs and even traffic lights.

Satellite radio reception:

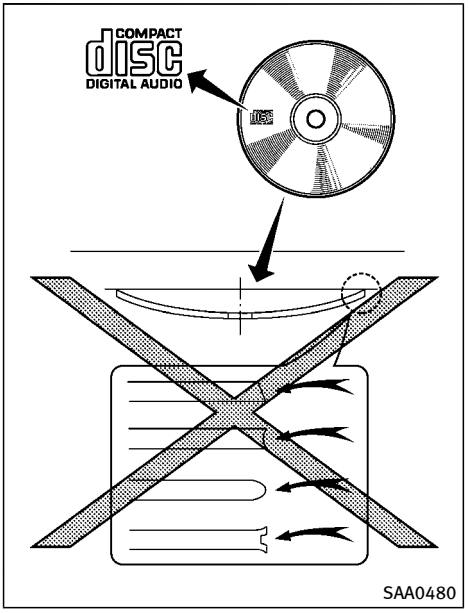
When the satellite radio is used for the first time or the battery has been replaced, the satellite radio may not work properly. This is not a malfunction. Wait more than 10 minutes with the satellite radio ON and the vehicle outside of any metal or large building for the satellite radio to receive all of the necessary data.

The satellite radio mode requires an active SiriusXM Satellite Radio subscription. The satellite radio is not available in Alaska, Hawaii and Guam.

The satellite radio performance may be affected if cargo carried on the roof blocks the satellite radio signal.

If possible, do not put cargo near the satellite antenna.

A build up of ice on the satellite radio antenna can affect satellite radio performance. Remove the ice to restore satellite radio reception.



SAA0480

Compact Disc (CD) player

- Do not force a compact disc into the CD insert slot. This could damage the CD and/or CD changer/player.
- Trying to load a CD with the CD door closed could damage the CD and/or CD changer.
- During cold weather or rainy days, the player may malfunction due to the humidity. If this occurs, remove the CD and dehumidify or ventilate the player completely.
- The player may skip while driving on rough roads.
- The CD player sometimes cannot function when the passenger compartment temperature is extremely high. Decrease the temperature before use.
- Only use high quality 4.7 in (12 cm) round discs that have the “COMPACT disc DIGITAL AUDIO” logo on the disc or packaging.
- Do not expose the CD to direct sunlight.
- CDs that are of poor quality, dirty, scratched, covered with fingerprints, or that have pin holes may not work properly.
- The following CDs may not work properly:
 - — Copy control compact discs (CCCD)
 - — Recordable compact discs (CD-R)
 - — Rewritable compact discs (CD-RW)
- Do not use the following CDs as they may cause the CD player to malfunction.

— 3.1 in (8 cm) discs
— CDs that are not round
— CDs with a paper label
— CDs that are warped, scratched, or have abnormal edges

- This audio system can only play pre-recorded CDs. It has no capabilities to record or burn CDs.
- If the CD cannot be played, one of the following messages will be displayed.

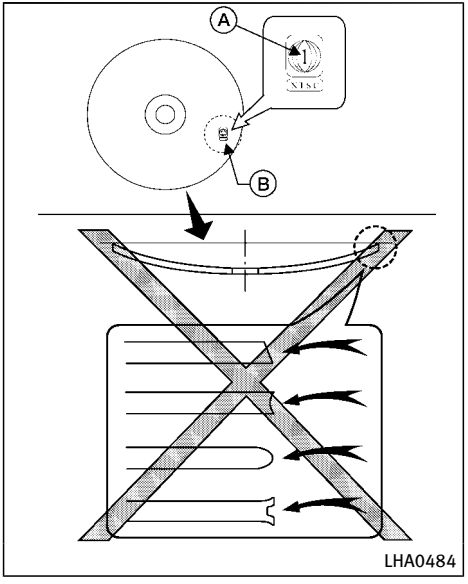
 CHECK DISC:
 — Confirm that the CD is inserted correctly (the label side is facing up, etc.).
 — Confirm that the CD is not bent or warped and it is free of scratches.

 PUSH EJECT:

 This is an error due to the temperature inside the player is too high. Remove the CD by pushing the EJECT button, and after a short time reinsert the CD. The CD can be played when the temperature of the player returns to normal.

 UNPLAYABLE:

 The file is unplayable in this audio system (only AAC, MP3 and WMA CD).



DVD (Digital Versatile Disc) player

- Do not force a compact disc into the CD/DVD insert slot. This could damage the CD/DVD player.
- During cold weather or rainy days, the player may malfunction due to humidity. If this occurs, remove the CD/DVD and dehumidify or ventilate the player completely.
- The player may skip while driving on rough roads.
- The CD/DVD player sometimes cannot function when the passenger compartment temperature is extremely high. Decrease the temperature before use.
- Only use high quality 4.7 in (12 cm) round discs that have the “COMPACT disc DIGITAL AUDIO” or “DVD Video” logo on the disc or packaging.
- Do not expose the CD/DVD to direct sunlight.
- CD/DVDs that are of poor quality, dirty, scratched, covered with fingerprints, or that have pinholes may not work properly.
- The following CD/DVDs are not guaranteed to play:
 — Copy control compact discs (CCCD)
 — Recordable compact discs (CD-R)
 — Rewritable compact discs (CD-RW)
 — Recordable DVDs (DVD±R, DVD±R DL)
 — Rewritable DVDs (DVD±RW, DVD±RW DL)
- Do not use the following CD/DVDs as they may cause the CD/DVD player to

malfunction.
— 3.1 in (8 cm) discs
— CD/DVDs that are not round
— CD/DVDs with a paper label
— CD/DVDs that are warped, scratched or have abnormal edges
— This audio system can only play prerecorded CD/DVDs. It has no capabilities to record or burn CD/DVDs.

- If the CD/DVD cannot be played, one of the following messages will be displayed.

 Disc Read Error:
 — Confirm that the CD/DVD is inserted correctly (the label side is facing up, etc.).
 — Confirm that the CD/DVD is not bent or warped and it is free of scratches.

 Please Eject Disc:
 — This may be an error due to the temperature inside the player being too high. Remove the CD/DVD by pushing the EJECT button, and after a short time reinsert the CD/DVD. The CD/DVD can be played when the temperature of the player returns to normal. If the error persists, consult your local retailer.

 Unplayable File:
 — The file may be copy protected.
 — The file is not MP3, WMA, AAC, M4A or DivX® type.

 Region Invalid:
 — The DVD is not for region 1 or all regions. Use DVDs with a region code “1”, “ALL” or “1 included” for your DVD entertainment system. (The region code Ⓐ is displayed as a small symbol printed on the top of the DVD Ⓑ.) This vehicle-installed DVD player cannot play DVDs with a region code other than “1” or “ALL”.

Copyright and trademark:

- The technology protected by the U.S. patent and other intellectual property rights owned by Macrovision Corporation and other right holders is adopted for this system.
- This copyright protected technology cannot be used without a permit from Macrovision Corporation. It is limited to be personal use, etc., as long as the permit from Macrovision Corporation is not issued.
- Modifying or disassembling is prohibited.
- Dolby digital is manufactured under license from Dolby Laboratories, Inc.
- Dolby and the double D mark “DOLBY DIGITAL” are trademarks of Dolby Laboratories, Inc.
- DTS is a registered trademark of DTS, Inc. and DTS 2.0 “dts” are registered trademarks of DTS, Inc.
- DTS and DTS Digital Surround “dts” are registered trademarks of Digital Theater Systems, Inc.

Parental level (parental control):

DVDs with the parental control setting can be played with this system. Please use your own judgement to set the parental control with the system.

Disc selection:

The following disc formats can be played with the DVD drive.

- DVD-VIDEO
- VIDEO-CD
- CD-DA (Conventional Compact Disc)
- DTS-CD

USB (Universal Serial Bus) connection port

WARNING

Do not connect, disconnect or operate the USB device while driving. Doing so can be a distraction. If distracted you could lose control of your vehicle and cause an accident or serious injury.

CAUTION

- **Do not force the USB device into the USB port. Inserting the USB device tilted or up-side-down into the port may damage the port. Make sure that the USB device is connected correctly into the USB port.**
- **Do not grab the USB port cover when pulling the USB device out of the port. This could damage the port and the cover.**
- **Do not leave the USB cable in a place where it can be pulled unintentionally. Pulling the cable may damage the port.**

The vehicle is not equipped with a USB device. USB devices should be purchased separately as necessary.

This system cannot be used to format USB devices. To format a USB device, use a personal computer.

In some states/area, the USB device for the front seats plays only sound without images for regulatory reasons, even when the vehicle is parked.

This system supports various USB memory devices, USB hard drives and iPod® players. Some USB devices may not be supported by this system.

- Partitioned USB devices may not play correctly.
- Some characters used in other languages (Chinese, Japanese, etc.) may not appear properly in the display. Using English language characters with a USB device is recommended.

General notes for USB use:

Refer to your device manufacturer's owner infomation regarding the proper use care of the device.

Notes for iPod® use:

"Made for iPod®", "Made for iPhone®", and "Made for iPad®" mean that an electronic accessory has been designed to connect specifically to iPod®, iPhone®, or iPad®, respectively, and has been certified by the developer to meet Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

Please note that the use of this accessory with iPod®, iPhone®, or iPad® may affect wireless performance.

iPad®, iPhone®, iPod®, iPod classic®, iPod nano®, iPod shuffle®, and iPod touch® are trademarks of Apple Inc., registered in the U.S. and other countries. Lightning is a trademark of Apple Inc.

- Improperly plugging in the iPod® may cause a checkmark to be displayed on and off (flickering). Always make sure that the iPod® is connected properly.
- An iPod nano® (1st Generation) may remain in fast forward or rewind mode if it is connected during a seek operation. In this case, please manually reset the iPod®.

- An iPod nano® (2nd Generation) will continue to fast-forward or rewind if it is disconnected during a seek operation.
- An incorrect song title may appear when the Play Mode is changed while using an iPod nano® (2nd Generation)
- Audiobooks may not play in the same order as they appear on an iPod®.
- Large video files cause slow responses in an iPod®. The vehicle center display may momentarily black out, but will soon recover.
- If an iPod® automatically selects large video files while in the shuffle mode, the vehicle center display may momentarily black out, but will soon recover.

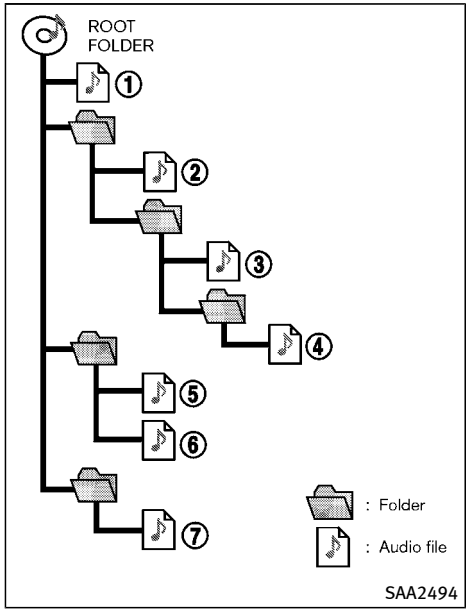
Compressed Audio Files (MP3/ WMA/AAC)

Explanation of terms:

- MP3 — MP3 is short for Moving Pictures Experts Group Audio Layer 3. MP3 is the most well known compressed digital audio file format. This format allows for near “CD quality” sound, but at a fraction of the size of normal audio files. MP3 conversion of an audio track can reduce the file size by approximately a 10:1 ratio (Sampling: 44.1 kHz, Bit rate: 128 kbps) with virtually no perceptible loss in quality. The compression reduces certain parts of sound that seem inaudible to most people.
- WMA — Windows Media Audio* (WMA) is a compressed audio format created by Microsoft as an alternative to MP3. The WMA codec offers greater file compression than the MP3 codec, enabling storage of more digital audio tracks in the same amount of space when compared to MP3s at the same level of quality.
- AAC/M4A — Advanced Audio Coding (AAC) is a lossy audio compression format. Audio files that have been encoded with AAC are generally smaller in size and deliver a higher quality of sound than MP3.
- Bit rate — Bit rate denotes the number of bits per second used by a digital music file. The size and quality of a compressed digital audio file is determined by the bit rate used when encoding the file.
- Sampling frequency — Sampling frequency is the rate at which the samples of a signal are converted from analog to digital (A/D conversion) per second.
- Multisession — Multisession is one of the methods for writing data to media. Writing data once to the media is called a single session, and writing more than once is called a multisession.
- ID3/WMA Tag — The ID3/WMA tag is the part of the encoded MP3 or WMA file that contains information about the digital music file such as song title, artist, album title, encoding bit rate, track time duration, etc. ID3 tag information is displayed on the Album/ Artist/Track title line on the display.

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Playback order:

- The folder names of folders not containing compressed audio files are not shown in the display.
- If there is a file in the top level of a disc/USB, “Root Folder” is displayed.
- The playback order is the order in which the files were written by the writing software, so the files might not play in the desired order.
- Music playback order of compressed audio files is as illustrated.

Specification chart:

Supported media			CD, CD-R, CD-RW, DVD-ROM, DVD±R, DVD±RW, DVD±R DL, USB2.0
Supported file systems			CD, CD-R, CD-RW, DVD-ROM, DVD±R, DVD±RW, DVD±R DL: ISO9660 LEVEL1, ISO9660 LEVEL2, Romeo, Joliet * ISO9660 Level 3 (packet writing) is not supported. * Files saved using the Live File System component (on a Windows Vista-based computer) are not supported. UDF Bridge (UDF1.02+ISO9660), UDF1.5, UDF2.0 * VDF1.5/VDF2.0 (packet writing) is not supported.
			USB memory: FAT16, FAT32
Supported versions*1	MP3	Version	MPEG1 Audio Layer 3
		Sampling frequency	8 kHz - 48 kHz
		Bit rate	8 kbps - 320 kbps, VBR*2
	WMA*3	Version	WMA7, WMA8, WMA9
		Sampling frequency	32 kHz - 48 kHz
		Bit rate	32 kbps - 192 kbps, VBR (Ver.9)*2
	AAC	Version	MPEG-AAC
		Sampling frequency	8 kHz - 96 kHz
		Bit rate	16 kbps - 320 kbps, VBR*2
Tag information (Song title and Artist name)			ID3 tag VER1.0, VER1.1, VER2.2, VER2.3, VER2.4 (MP3 only)
			WMA tag (WMA only)
Folder levels			Folder levels: 8, Folders: 512 (including root folder), Files: 5000
Displayable character codes*4			01: ASCII, 02: ISO-8859-1, 03: UNICODE (UTF-16 BOM Big Endian), 04: UNICODE (UTF-16 Non-BOM Big Endian), 05: UNICODE (UTF-8), 06: UNICODE (Non-UTF-16 BOM Little Endian), 07: SHIFT-JIS

*1 Files created with a combination of 48 kHz sampling frequency and 64 kbps bit rate cannot be played.
*2 When VBR files are played, the playback time may not be displayed correctly.
*3 Protected WMA files (DRM) cannot be played.
*4 Available codes depend on what kind of media, versions and information are going to be displayed.

Troubleshooting guide:

Symptom	Cause and Countermeasure
Cannot play	Check if the disc or USB device was inserted correctly.
	Check if the disc is scratched or dirty.
	Check if there is condensation inside the player, and if there is, wait until the condensation is gone (about 1 hour) before using the player.
	If there is a temperature increase error, the player will play correctly after it returns to the normal temperature.
	If there is a mixture of music CD files (CD-DA data) and compressed audio files on a CD, only the music CD files (CD-DA data) will be played.
	Files with extensions other than “.MP3 (.mp3)”, “.WMA (.wma)”, “.AAC (.aac)”, “.M4A (.m4a)”, or “.AA3 (.aa3)” cannot be played. In addition, the character codes and number of characters for folder names and file names should be in compliance with the specifications.
	Check if the disc or the file is generated in an irregular format. This may occur depending on the variation or the setting of compressed audio writing applications or other text editing applications.
	Check if the finalization process, such as session close and disc close, is done for the disc.
	Check if the disc or USB device is protected by copyright.
Poor sound quality	Check if the disc is scratched or dirty.
It takes a relatively long time before the music starts playing.	If there are many folder or file levels on the disc or USB device, some time may be required before the music starts playing.
Music cuts off or skips	The writing software and hardware combination might not match, or the writing speed, writing depth, writing width, etc., might not match the specifications. Try using the slowest writing speed.
Skipping with high bit rate files	Skipping may occur with large quantities of data, such as for high bit rate data.
Move immediately to the next song when playing.	If an unsupported compressed audio file has been given a supported extension like .MP3, or when play is prohibited by copyright protection, the player will skip to the next song.
The songs do not play back in the desired order.	The playback order is the order in which the files were written by the writing software, so the files might not play in the desired order.
	Random/Shuffle may be active on the audio system or on a USB device.

Compressed Video Files

Explanation of terms:

- DivX® - DivX® refers to the DivX® codec owned by DivX, Inc. used for a lossy compression of video based on MPEG-4.
- AVI - AVI stands for Audio Video Interleave. It is a standard file format originated by Microsoft Corporation. A ".divx" encoded file can be saved into the ".avi" file format for playback on this system if it meets the requirements stated in the table in this section. However, not all the ".avi" files are playable on this system since different encodings can be used than the DivX® codec.
- ASF - ASF stands for Advanced Systems Format. It is a file format owned by Microsoft Corporation. Note: Only ". asf" files that meet the requirements stated in the table in this section can be played.
- Bit rate — Bit rate denotes the number of bits per second used by a digital video file. The size and quality of a compressed digital audio file is determined by the bit rate used when encoding the file.

Requirement for Supporting Video Playback:

Media	CD, CD-R, CD-RW, DVD, DVD±R, DVD±RW, DVD±RW DL, USB 2.0 Memory		
File Systems	CD, CD-R, CD-RW, DVD, DVD±R, DVD±RW, DVD±RW DL	ISO9660 LEVEL1, ISO9660 LEVEL2, Romeo, Joliet, UDF Bridge (UDF1.02 +ISO9660), UDF1.5, UDF2.0 - ISO9660 Level 3 (packet writing) is not supported. - Files saved using the Live File System component (on a Windows Vista-based computer) are not supported. - VDF1.5/VDF2.0 (packet writing) is not supported.	
	USB Memory	FAT16, FAT32	
File Types	.divx, .avi	Video Codecs	DivX3, DivX4, DivX5, DivX6
		Audio Codecs	MP3, MPEG2.5 Audio Layer3, AC3, LPCM
	.asf	Video Codec	ISO-MPEG4
		Audio Codec	G.726
Bit Rates	.divx, .avi	Maximum Average	4Mbps
		Maximum Peak	8Mbps
Resolution	.divx, .avi	Minimum	32 × 32
		Maximum	720 × 480
	.asf	Minimum	32 × 32
		Maximum	720 × 576

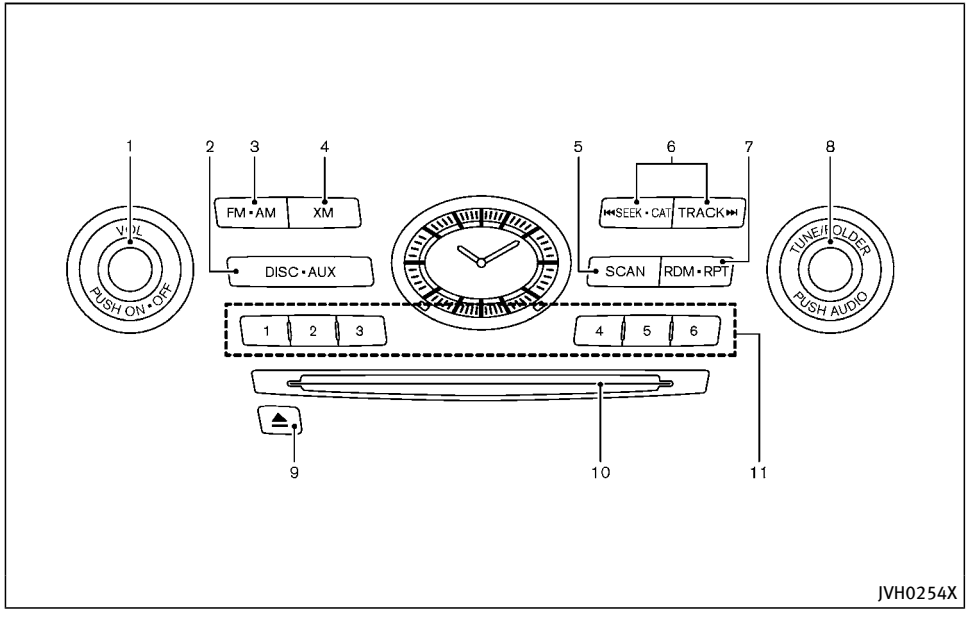
Bluetooth streaming audio

Bluetooth® is a trademark owned by Bluetooth SIG, Inc. and licensed to Clarion Co., Ltd.

- Some Bluetooth® audio devices may not be recognized by the in-vehicle audio system.
- It is necessary to set up the wireless connection between a compatible Bluetooth® audio device and the in-vehicle Bluetooth® module before using the Bluetooth streaming audio.
- Operating procedure of the Bluetooth streaming audio will vary depending on the device. Make sure it is understood

how to operate an audio device before using it with this system.

- The Bluetooth streaming audio may be stopped under the following conditions:
 — Receiving a hands-free call.
 — Checking the connection to the hands-free phone.
- Do not place a Bluetooth® audio device in an area surrounded by metal or far away from the in-vehicle Bluetooth® module to prevent tone quality degradation and wireless connection disruption.
- While an audio device is connected through a Bluetooth® wireless connection, the battery power of the device may discharge quicker than usual.
- This system supports the Bluetooth® Audio Distribution Profile (A2DP, AVRCP).
- Wireless LAN (Wi-Fi) and the Bluetooth® functions share the same frequency band (2.4 GHz). Using the Bluetooth® and the wireless LAN functions at the same time may slow down or disconnect the communication and cause undesired noise. It is recommended that you turn off the wireless LAN (Wi-Fi) when using the Bluetooth® functions.



1. ON·OFF/VOLUME control knob
2. DISC·AUX button
3. FM·AM band select button
4. XM band select button
5. SCAN button
6. SEEK·CAT/TRACK button
7. RDM (random)·RPT (repeat) play button
8. Radio tuning / MP3/WMA/AAC folder selector / AUDIO control knob
9. Disc EJECT button
10. CD/DVD slot
11. Radio station preset buttons

FM-AM-SAT RADIO WITH COMPACT DISC (CD) PLAYER

No satellite radio reception is available unless a SiriusXM Satellite Radio subscription is active.

The audio control buttons are also located on the center multi-function control panel.

For all operation precautions, see “Audio operation precautions” (P.4-53).

The satellite radio mode requires an active SiriusXM Satellite Radio subscription. The satellite radio is not available in Alaska, Hawaii and Guam.

It may take some time to receive the activation signal after subscribing the SiriusXM Satellite Radio. After receiving the activation signal, an available channel list will be automatically updated in the radio. Push the ignition switch from LOCK to ACC to update the channel list.

Audio main operation

Head unit:

The auto loudness circuit enhances the low and high frequency ranges automatically in both radio reception and CD playback.

ON·OFF/Volume control:

Push the ignition switch to the ACC or ON position, and then push the ON·OFF button while the system is off to turn on the last audio source, which was playing immediately before the system was turned off. While the system is on, pushing the ON·OFF button turns the system off.

Turn the VOL control knob to adjust the volume.

Adjusting tone quality and speaker balance:

To adjust Bass, Treble, Balance and Fade, push the Audio control knob. When the display shows the setting you want to change (Bass, Treble, Balance and Fade), rotate the Audio control knob to set the desired setting. For the other setting methods, see “Audio settings” (P.4-12).

Switching the display:

Pushing the DISC·AUX button will switch the displays as follows:

iPod®/USB → CD/DVD → Bluetooth® streaming audio → AUX → iPod®/USB

Linking Intelligent Key:

The audio settings can be memorized for each Intelligent Key. For more details, see “Setting memory function” (P.3-36).

FM-AM-SAT radio operation

When the radio band select button is pushed while the ignition switch is in the ACC or ON position, the radio will come on at the channel last played.

The last channel played will also come on when the ON·OFF button is pushed to ON.

If another audio source is playing when the radio band select button is turned to ON, the audio source will automatically be turned off and the last radio channel played will come on.

When the stereo broadcast signal is weak, the radio will automatically change from stereo to monaural reception.

FM•AM radio (FM·AM) band select:

Pushing the FM·AM radio band select button will change the band as follows:

AM → FM1 → FM2 → AM

XM radio (SiriusXM Satellite Radio) band select:

Pushing the XM radio band select button will change the band as follows:

XM1 → XM2 → XM3 → XM1

The satellite radio is not available in Alaska, Hawaii and Guam.

TUNE (Tuning):

- For AM and FM radio
 Turn the radio TUNE knob for manual tuning.
- For SiriusXM Satellite Radio
 Turn the radio TUNE knob to seek channels from all of the categories when any category is not selected.

SEEK·CAT TRACK SEEK tuning:

- For AM and FM radio
 Push the SEEK·CAT or TRACK button ⏮ SEEK·CAT or TRACK ⏭ to tune from low to high or high to low frequencies and to stop at the next broadcasting station.
- For SiriusXM Satellite Radio
 Push the SEEK·CAT or TRACK button ⏮ SEEK·CAT or TRACK ⏭ to tune to the first channel of the next or previous category.

During satellite radio reception, the following notices will be displayed under certain conditions.

- NO SIGNAL (No signal is received while the SAT tuner is connected.)

- OFF AIR (Broadcasting signed off)
- CHECK ANTENNA (Antenna connection error)
- LOADING (When the initial setting is performed)
- UPDATING (When the satellite radio subscription is not active)
- INVALID CH (Invalid channel is received.)

SCAN SCAN tuning:

Push the SCAN tuning button to tune from low to high frequencies and stop at each broadcasting station/channel for 5 seconds. Pushing the button again during this 10 seconds period will stop SCAN tuning and the radio will remain tuned to that station/channel.

If the SCAN tuning button is not pushed within 5 seconds, SCAN tuning moves to the next station/channel.

① to ⑥ Station memory operations:

12 stations/channels can be set for the FM band (6 each for FM1 and FM2), 18 for SiriusXM Satellite Radio (6 each for XM1, XM2 and XM3) and 6 stations can be set for the AM band.

1. Choose the radio band using the radio band select button.
2. Tune to the desired station/channel using the SEEK·CAT, TRACK, SCAN button or the radio TUNE knob.
3. Push and hold the desired station preset button ① to ⑥ until the radio mutes.
4. The station indicator will then come on and the sound will resume. Memorizing is now complete.
5. Other buttons can be set in the same manner.

If the battery cable is disconnected, or if the fuse opens, the radio memory will be erased. In that case, reset the desired stations/channels.

Menu (SiriusXM Satellite Radio):

When the “Menu” key on the display is selected while the SiriusXM Satellite Radio is being played, the menu list will be displayed.

The following items are available.

- Preset List

 Displays the preset channel list. If 1 of the 6 preset stations listed is touched and held, the current station will be stored as the new preset.
- Customize Channel List

 Selects specific channels to skip while using the TUNE, SEEK·CAT or Menu-Categories feature.
- Favorite Artists & Songs

 Stores the current artist or song that is being played. Touch the “Alert” key to be reminded when the stored artist or song is playing on a station while listening to SiriusXM Satellite Radio.
- Categories

 Selecting a category will go to the first channel in that category as defined by SiriusXM Satellite Radio.
- Direct Tune

 Inputs the channel number by using a keypad.

Compact Disc (CD) player operation

Push the ignition switch to the ACC or ON position and insert the Compact Disc (CD) into the slot with the label side facing up. The CD will be guided automatically into the slot and start playing.

After loading the CD, the number of tracks on the CD and the play time will appear on the display.

If the radio is already operating, it will automatically turn off and the CD will play.

If the system has been turned off while the CD was playing, pushing the ON·OFF button will start the CD.

DISC·AUX PLAY:

When the DISC·AUX (CD play) button is pushed with the system off and the CD loaded, the system will turn on and the CD will start to play.

When the DISC·AUX button is pushed with the CD loaded and the radio playing, the radio will automatically be turned off and the CD will start to play.

Menu:

When the "Menu" key on the display is selected while the CD is being played, the menu screen will be displayed. The following menu options are available.

- Folder List (for CD with compressed audio files)
 Displays the folder list.
- Track List
 Displays the track list.
- Play Mode
 Select a play mode from the following items.
 — Normal
 — 1 Folder Repeat (for CD with compressed audio files)
 — 1 Track Repeat
 — 1 Disc Random
 — 1 Folder Random (for CD with compressed audio files)

TRACK ▶▶| |◀◀ SEEK · CAT Next/Previous Track and Fast Forward/Rewind:

When the TRACK ▶▶| or |◀◀ SEEK · CAT button is pushed for more than 1.5 seconds while the CD is being played, the CD will play while fast forwarding or rewinding. When the button is released, the CD will return to normal play speed.

When the TRACK ▶▶| or |◀◀ SEEK · CAT button is pushed for less than 1.5 seconds while the CD is being played, the next track or the beginning of the current track on the CD will be played.

When the rewind button is pushed for less than 1.5 seconds within 3 seconds after the current track starts playing, the previous track will be played.

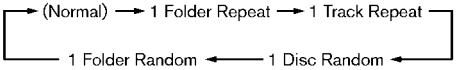
RDM · RPT REPEAT (RPT), RANDOM (RDM):

When the RDM · RPT button is pushed while the CD is played, the play pattern can be changed as follows:

(CD)



(CD with compressed audio files)



⏏ CD EJECT:

When the Disc EJECT button is pushed with the CD loaded, the CD will be ejected.

When this button is pushed while the CD is being played, the CD will be ejected.

If the CD comes out and is not removed, it will be pulled back into the slot to protect it.

DVD (Digital Versatile Disc) PLAYER OPERATION

Precautions

Start the engine when using the DVD entertainment system.

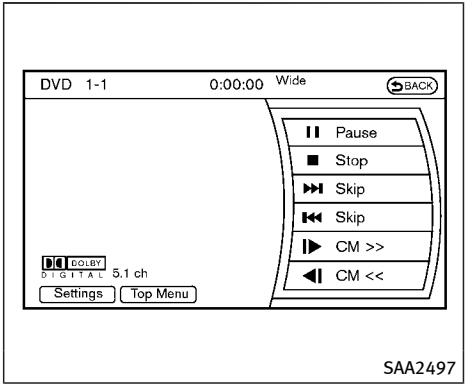
Movies will not be shown on the front display while the vehicle is in any drive position to reduce driver distraction. Audio is available when a movie is played. To view movies in the front display, stop the vehicle in a safe location, move the shift lever to the P (Park) position and apply the parking brake.

WARNING

- **The driver must not attempt to operate the DVD system or wear the headphones while the vehicle is in motion so that full attention may be given to vehicle operation.**
- **Do not attempt to modify the system to display a movie on the front screen while the vehicle is being driven. Doing so may distract the driver and may cause a collision and serious personal injury or death.**

CAUTION

- **Only operate the DVD while the vehicle engine is running. Operating the DVD for extended periods of time with the engine OFF can discharge the vehicle battery.**
- **Do not allow the system to get wet. Excessive moisture such as spilled liquids may cause the system to malfunction.**
- **While playing VIDEO-CD media, this DVD player does not guarantee complete functionality of all VIDEO-CD formats.**



Playing a DVD

Park the vehicle in a safe location for the front seat occupants to operate the DVD drive while watching the images.

Inserting/removing disc:

Insert a DVD into the CD/DVD slot with the labeled side up. The DVD will be guided automatically into the slot. When ejecting the DVD, push the EJECT button.

DISC·AUX button:

When a DVD is loaded, it will begin playing automatically.

The operation screen will be turned on

when the DISC·AUX button located on the instrument panel is pushed while a DVD is being played, and it will turn off automatically after a period of time. To turn it on again, push the DISC·AUX button again.

DVD operation keys:

When the DVD is playing without the operation screen being shown as illustrated, you may use the touch screen to select items from the displayed video. You may also use the INFINITI controller to select an item from the displayed video. When the operation screen is being shown, use the INFINITI controller or touch screen to select an item from the displayed menus.

II PAUSE:

Select the " II " key to pause the DVD. To resume playing the DVD, use the "PLAY" key.

▶ PLAY:

Select the " ▶ " key to start playing the DVD, for example, after pausing the DVD.

■ STOP:

Select the " ■ " key to stop playing the DVD.

▶▶| / |◀◀ Next/Previous Chapter:

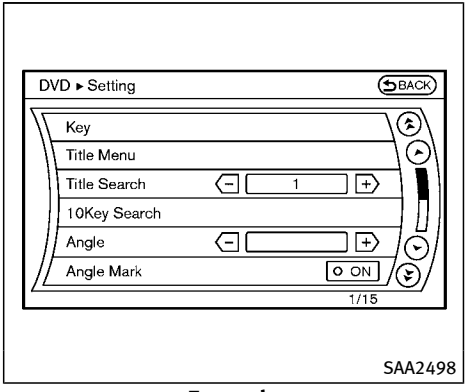
Select the " ▶▶| " or " |◀◀ " key to skip the chapter(s) of the disc forward/backward. The chapters will advance/go back the number of times this key is selected.

|▶ / ◀| Commercial Skip:

This function is only for DVD-VIDEO, DVD-VR. Select the " |▶ " or " ◀| " key to skip forward or backwards by the set amount as defined in the DVD Settings menu.

Top Menu:

When the "Top Menu" key is selected in the screen while a DVD is being played, the top menu specific to each disc will be displayed. For details, see the instructions on the disc.



Example

DVD settings

Select the "Settings" key to adjust the following settings.

Key (DVD-VIDEO):

Keys for the DVD menu operation are displayed.

: Move the cursor to select a DVD menu.

Enter: Enter the selected menu.

Move: Change the display location by moving the operation key.

Back: Return to the previous screen.

◀▲▼▶ Hide: Hide the operation key.

Title Menu (DVD-VIDEO):

Some menus specific to each disc will be shown. For details, see the instructions on the disc.

Title Search (DVD-VIDEO, DVD-VR):

The scene with the specified title will be displayed each time the “+” side or “–” side is selected.

Group Search (VIDEO CD):

A scene in the specified group will be displayed each time the “+” side or “–” side is selected.

10 Key Search (DVD-VIDEO, VIDEO-CD,CD-DA, DVD-VR):

Select the “10 Key Search” key to open the number entry screen. Input the number to be searched and select the “OK” key. The specified Title/Chapter or Group/Track will be played.

Select No. (VIDEO-CD):

Select the “Select No.” key to open the number entry screen. Input the number to be searched and select the “OK” key. The specified scene will be played.

Surround Information (DVD-VIDEO, VIDEO-CD, CD-DA) (Models equipped with BOSE® Surround Sound System):

Select the “Surround Information” key and push the ENTER button. The surround information screen will appear.

Push the BACK button to return to the previous screen.

Angle (DVD-VIDEO):

If the DVD contains different angles (such as moving images), the current image angle can be switched to another one. Select the “Angle” key. The angle will change each time the “+” side or “–” side is selected.

Angle Mark (DVD-VIDEO):

When this item is turned on, an angle mark will be shown on the bottom of the screen if the scene can be seen from a different angle.

Menu Skip (DVD-VIDEO):

DVD menus are automatically configured and the contents will be played directly when the “Menu Skip” key is turned on. Note that some discs may not be played directly even if this item is turned on.

CM Skip (DVD-VIDEO):

Select the “CM Skip” key. Choose the setting time from 15, 30 or 60 seconds by selecting the “+” side or “–” side.

DRC (DVD-VIDEO, DVD-VR):

DRC (Dynamic Range Compression) automatically adjusts the soundtrack volume level to maintain a more even sound to the speakers.

DOWN MIX (DVD-VIDEO):

Convert a multi-channel recording to a traditional two-channel (stereo) recording.

DVD Language (DVD-VIDEO, VIDEO-CD):

Select the “DVD Language” key to open the number entry screen. Input the number corresponding to the preferred language and select the “OK” key. The DVD top menu language will be changed to the one specified.

Display:

To adjust the image quality of the screen, select the preferred adjustment items.

Audio:

Select the preferred language for audio.

Subtitle (DVD-VIDEO, DVD-VR):

Select the preferred language for subtitles.

Display Mode (DVD-VIDEO, VIDEO-CD, DVD-VR):

Select from the “Full”, “Wide”, “Normal” or “Cinema” modes.

Title List (DVD-VR):

Select the preferred title from the list.

Play Mode:

Select the preferred play mode.

PG/PL Mode (DVD-VR):

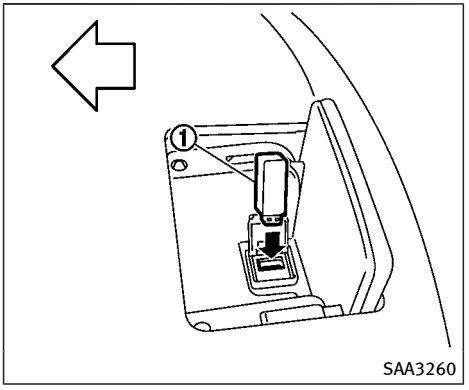
Select the “PG” or “PL” mode.

Display settings

To adjust the front display mode, push the SETTING button while the DVD is being played, select the “Others” key and then select the “Display” key.

To adjust the display ON/OFF, brightness, tint, color and contrast, select the “Display Adjustment” key and then select each key.

Then you can adjust each item using the INFINITI controller. After changes have been made push the BACK button to save the setting.



USB (Universal Serial Bus) CONNECTION PORT

Audio main operation

The USB connection port is located inside the tray.

Open the tray lid and connect a USB memory ① as illustrated. Then, push the DISC·AUX button repeatedly to switch to the USB memory mode.

If the system has been turned off while the USB memory was playing, pushing the ON·OFF/VOL control knob will start the USB memory.

WARNING

Do not connect, disconnect or operate the USB device while driving. Doing so can be a distraction. If distracted your could lose control of your vehicle and cause an accident or serious injury.

CAUTION

- **Depending on size and shape of USB device, the tray lid may not fully close. Do not force tray lid closed as this may damage USB device.**
- **Do not force the USB device into the USB port. Inserting the USB device tilted or up-side-down into the port may damage the port. Make sure that the USB device is connected correctly into the USB port. (Some USB devices come with a mark as a guide. Make sure that the mark is facing the correct direction before inserting the device.)**
- **Do not locate objects near the USB device to prevent the objects from leaning on the USB device and the port.**

Pressure from the objects may damage the port.

Refer to your device manufacturer's owner information regarding the proper use and care of the device.

Playable files

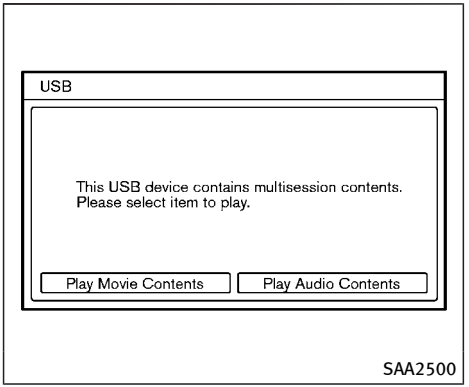
Only files that meet the following conditions are playable.

Music files:

- File format: MP3 (".mp3), WMA (". wma"), AAC (".aac"), M4A (".m4a")
- File size: 2 gigabytes or less

Video files:

- File format DivX (".divx"), MPEG4 (ASF) (".afs", ".avi")
- File size: 2 gigabytes or less

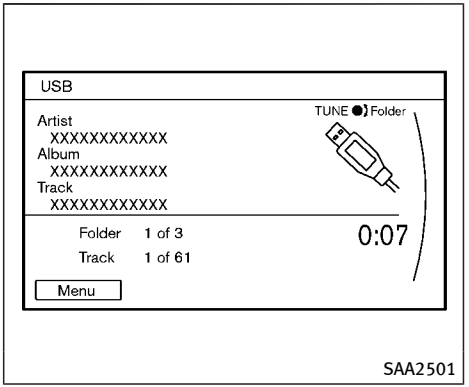


File selection

When there are both audio and movie files in the USB memory, the mode select screen is displayed. Select the preferred contents to play.

When there is only one type of file, the audio or movie operation screen is displayed and starts to play.

If a video file restricts the number of playbacks, a pop-up screen will appear to confirm it is ok to play. Answer yes or no as requested by the display.



Audio file operation

DISC-AUX PLAY:

When the DISC·AUX button is pushed with the system off and the USB memory inserted, the system will turn on.

If another audio source is playing and a USB memory is inserted, push the DISC·AUX button repeatedly until the center display changes to the USB memory mode.

Next/Previous File and Fast Forward/Rewind:

When the TRACK ▶▶| or |◀◀ SEEK · CAT button is pushed for more than 1.5 seconds while a USB memory is being played, the USB memory will play while forwarding or rewinding. When the button is released, the USB memory will return to normal play speed.

When the TRACK ▶▶| or |◀◀ SEEK · CAT button is pushed for less than 1.5 seconds while the USB memory is being played, the next track or the beginning of the current track on the USB memory will be played.

When the rewind button is pushed for less than 1.5 seconds within 3 seconds after the current track starts playing, the previous track will be played.

The INFINITI controller can also be used to select tracks when the USB memory is being played.

Folder selection:

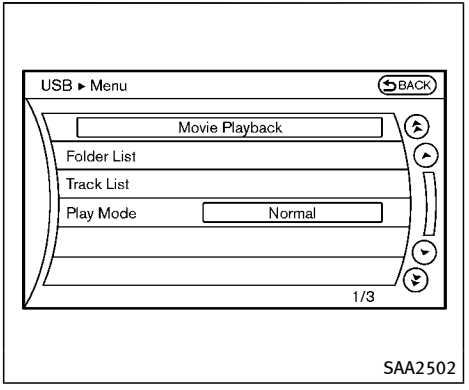
To change to another folder in the USB memory, turn the folder selector or choose a folder displayed on the screen using the INFINITI controller.

REPEAT (RPT), RANDOM (RDM):

When the RDM · RPT button is pushed while the USB memory is played, the play pattern can be change as follows.

To change the play mode, push the RDM · RPT button repeatedly and the mode will change as follows.

Normal → 1 Folder Repeat → 1 Track Repeat → All Random → 1 Folder Random → Normal



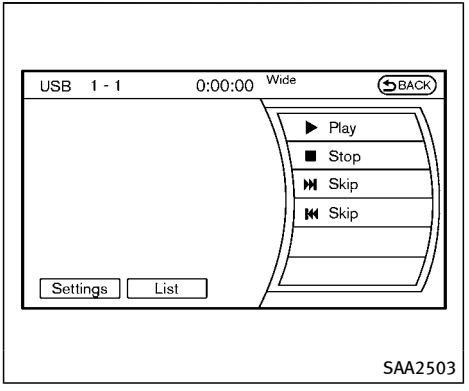
Menu:

There are some options available during playback. Select one of the following options that are displayed on the screen if necessary. Refer to the following information for each item.

- **Movie Playback**
 Switch to the movie playback mode. This item is displayed only when a USB memory contains movie files.
- **Folder List/Track List**
 Displays the folder or track list. The “Movie Playback” key is also displayed in this list screen, and enables switch-

ing to the movie playback mode.

- **Play Mode**
 Select the preferred play mode.



Movie file operation

Park the vehicle in a safe location for the front seat occupants to operate the USB memory while watching the images.

DISC·AUX PLAY:

When the DISC·AUX button is pushed with the system off and the USB memory inserted, the system will turn on.

If another audio source is playing and a USB memory is inserted, push the DISC·AUX button repeatedly until the center display changes to the USB memory mode.

Operation keys:

To operate the USB memory, select the desired key displayed on the operation screen using the INFINITI controller.

Pause

Select the "II" key to pause the movie file. To resume playing the movie file, select the "▶" key.

Play

Select the "▶" key to start playing a movie file, for example, after pausing a movie file.

STOP

Select the "■" key to stop playing a movie file.

Skip (Next chapter)

Select the "▶▶|" key to skip the chapter(s) of the disc forward. The chapters will advance the number of times the ENTER button is pushed.

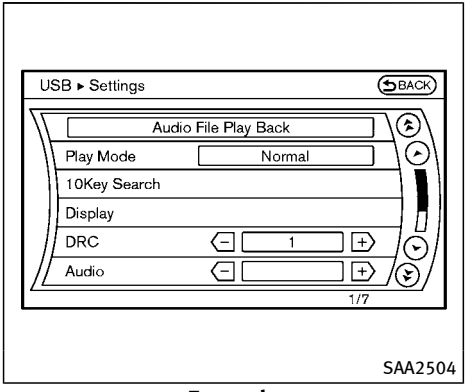
Skip (Previous chapter)

Select the "|◀◀" key to skip the chapter(s) of the disc backward. The chapters will go

back the number of times the “⏮” key is selected.

List:

Select the “List” key on the movie file operation screen to display the file list.



Example

Settings:

Select the “Settings” key to adjust the following settings.

- **Audio File Playback**
 Switch to the audio playback mode. This item is displayed only when the USB memory contains the audio files.
- **Play Mode**
 Select the “Normal” or “1 Track Repeat” play mode.
- **10 Key Search**
 Select the “10 Key Search” key to open the number entry screen.
 Input the number to be searched and select the “OK” key.
 The specified folder/file will be played.
- **Display**
 To adjust the image quality of the screen, select the preferred adjustment items.
- **DRC**
 DRC (Dynamic Range Compression) automatically adjusts the soundtrack volume level to maintain a more even sound to the speakers.
- **Audio**
 Select the preferred language for audio.
- **Subtitle**
 Select the preferred language for subtitle.
- **Display Mode**
 Select the “Normal”, “Wide”, “Cinema” or “Full” mode.

Bluetooth® STREAMING AUDIO

Your INFINITI is equipped with Bluetooth® Streaming Audio. If you have a compatible Bluetooth® device with streaming audio (A2DP profile), you can set up the wireless connection between your Bluetooth® device and the in-vehicle audio system. This connection allows you to listen to the audio from the Bluetooth® device using your vehicle speakers. It also may allow basic control of the device for playing and skipping audio files using the AVRCP Bluetooth profile. All Bluetooth® Devices do not have the same level of controls for AVRCP. Please consult the manual for your Bluetooth® Device for more details.

Once your Bluetooth® device is connected to the in-vehicle audio system, it will automatically reconnect whenever the device is present in the vehicle and you select Bluetooth Audio from your audio system. You do not need to manually reconnect for each usage.

Wireless LAN (Wi-Fi) and the Bluetooth® functions share the same frequency band (2.4 GHz). Using the Bluetooth® and the wireless LAN functions at the same time may slow down or disconnect the communication and cause undesired noise. It is recommended that you turn off the wireless LAN (Wi-Fi) when using the Bluetooth® functions.

Regulatory information

FCC Regulatory information:

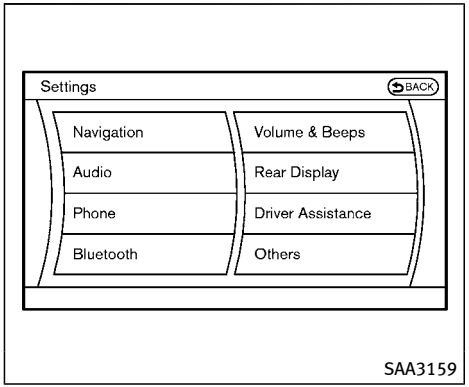
- CAUTION: To maintain compliance with FCC's RF exposure guidelines, use only the supplied antenna. Unauthorized antenna, modification, or attachments could damage the transmitter and may violate FCC regulations.
- Operation is subject to the following two conditions:
 1) This device may not cause interference and
 2) This device must accept any interference, including interference that may cause undesired operation of the device

IC Regulatory information:

- Operation is subject to the following two conditions:
 1) This device may not cause interference, and
 2) This device must accept any interference, including interference that may cause undesired operation of the device.
- This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

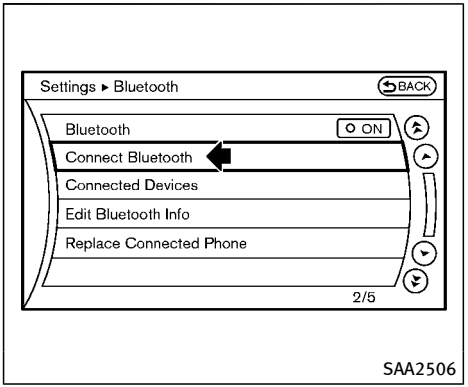
Bluetooth trademark:

Bluetooth® is a trademark owned by Bluetooth SIG, Inc., and licensed to Clarion Co., Ltd.

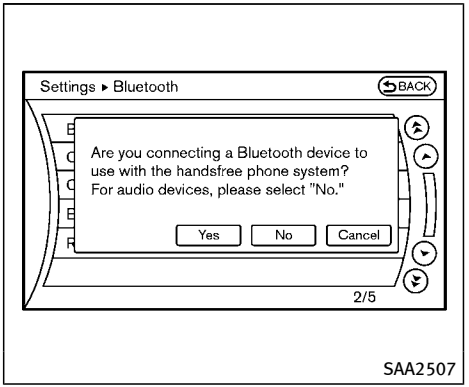


Connecting procedure

1. Push the SETTING button and select the “Bluetooth” key.

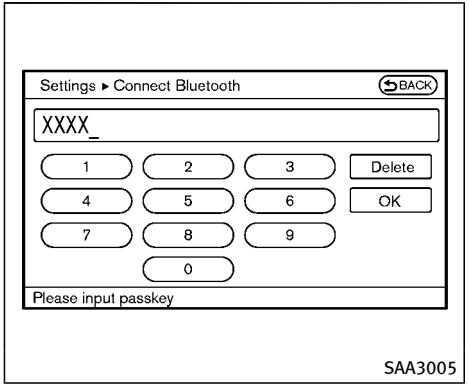


2. Select the “Connect Bluetooth” key.



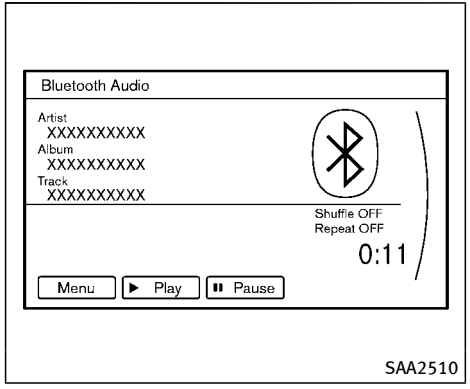
3. A confirmation screen will be displayed. Select “No”.

 Note: Selecting “Yes” will only connect the hands free phone portion of a Bluetooth® device.



4. When a passkey appears on the screen, operate the compatible Bluetooth® audio device to enter the passkey. The pairing procedure of the audio device varies according to each audio device. See the Bluetooth® audio Owner's Manual for details.

 When pairing is completed, the screen will return to the Bluetooth® setup display.



Audio main operation

Push the ignition switch to the ACC or ON position. Then, push the DISC·AUX button repeatedly to switch to the Bluetooth audio mode. If the system has been turned off while the Bluetooth audio device was playing, pushing the ON·OFF/VOL control knob will start the Bluetooth audio device.

The ability to pause, change tracks, fast forward, rewind, randomize and repeat music may be different between devices. Some or all of these functions may not be supported on each device.

DISC·AUX button:

When the DISC·AUX button is pushed with the system off and the Bluetooth audio device connected, the system will turn on. If another audio source is playing and the Bluetooth® audio device is connected, push the DISC·AUX button repeatedly until the display changes to the Bluetooth audio mode.

Next/Previous Track and Fast Forward/Rewind:

When the TRACK ▶▶| or |◀◀ SEEK·CAT button is pushed for more than 1.5 seconds while a Bluetooth® audio file is being played, the Bluetooth® audio device will play while forwarding or rewinding. When the button is released, the Bluetooth® audio device will return to normal play speed.

When the TRACK ▶▶| or |◀◀ SEEK·CAT button is pushed for less than 1.5 seconds while a Bluetooth® audio file is being played, the next track or the beginning of the current track on the Bluetooth audio device will be played.

When the rewind button is pushed for less than 1.5 seconds within 3 seconds after the current track starts playing, the previous track will be played.

The INFINITI controller can also be used to select tracks when the Bluetooth® audio play mode screen is shown on the display. (“Bluetooth audio” will be indicated on the header of the screen.)

RDM • RPT Play pattern change:

To change the play mode, push the RDM • RPT button repeatedly and the mode changes as follows.

Normal → Shuffle All Tracks → Repeat 1 Track → Repeat All Tracks → Normal

Operation keys:

To operate a Bluetooth® audio device, select a key displayed on the operation screen using the INFINITI controller.

▶ Play

Select the “▶” key to start playing when pausing. Select this key again to pause the audio play.

II Pause

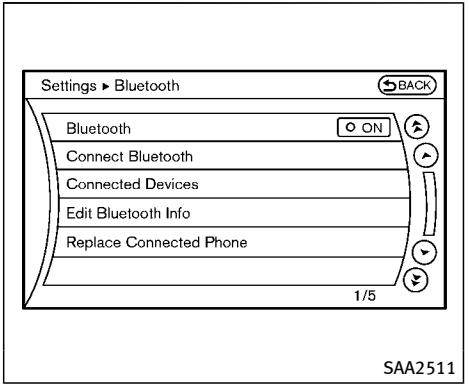
Select the “II” key to pause the Bluetooth® audio device. Select this key again to resume playing.

Play Mode:

The play mode setting display will appear when the “Menu” key is selected.

Choose the preferred play mode from the following items.

- **Shuffle**
 Choose “Shuffle OFF” and “Shuffle All Tracks”.
- **Repeat**
 Choose from “Repeat OFF”, “Repeat 1 Track” and “Repeat All Tracks”.



Bluetooth® settings

To set up the Bluetooth device system to the preferred settings, push the SETTING button and select the “Bluetooth” key.

Bluetooth:

If this setting is turned off, the connection between the Bluetooth devices and the in-vehicle Bluetooth module will be canceled.

Connect Bluetooth:

Connects to the Bluetooth device. See “Connecting procedure” (P.4-79). Up to 5 devices can be registered.

Connected Devices:

Registered devices are shown on the list. Select a Bluetooth device from the list, the following options will be available.

- **Select**

 Select “Select” to connect the selected device to the vehicle. If there is a different device currently connected, the selected device will replace the current device.
- **Edit**

 Rename the selected Bluetooth device using the keypad displayed on the screen. (See “How to use touch screen” (P.4-4).)
- **Delete**

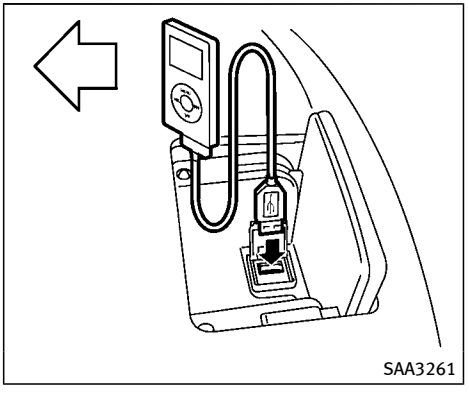
 Delete the selected Bluetooth device.

Edit Bluetooth Info:

Change the name broadcasted by this system over Bluetooth. Change the PIN code that is entered when connecting a hands free device to this system.

Replace Connected Phone:

Replace the Bluetooth connection with a connected Bluetooth cellular phone. For details about Hands-Free Phone System, see “Bluetooth® Hands-Free Phone System” (P.4-104).



iPod® PLAYER OPERATION

Connecting iPod®

The USB connection port is located inside the tray.

Open the tray lid and connect the iPod® cable to the USB connector. If the iPod® supports charging via USB, the battery of the iPod® will be charged while connected to the vehicle.

Depending on the version of the iPod®, the display on the iPod® shows an INFINITI or Accessory Attached screen when the connection is completed. When the iPod® is connected to the vehicle, the iPod® music

library can only be operated by the vehicle audio controls.

WARNING

Do not connect or disconnect the iPod® cable while driving. Doing so can be a distraction. If distracted your could lose control of your vehicle and cause an accident or serious injury.

CAUTION

- **Depending on size and shape of iPod® and iPod® cable, the tray lid may not fully close. Do not force tray lid closed as this may damage iPod® and iPod® cable.**
- **Do not force the iPod® cable into the USB port. Inserting the iPod® cable tilted or up-side-down into the port may damage the iPod® cable and the port. Make sure that the iPod® cable is connected correctly into the USB port. (Some iPod® cable come with a mark as a guide. Make sure that the mark is facing the correct direction before inserting the iPod® cable.)**
- **Do not locate objects near the iPod® cable to prevent the objects from leaning on the iPod® cable and the port. Pressure from the objects may damage the iPod® cable and the port.**

Compatibility

The following models are available:

- Fifth generation iPod® (version 1.2.3 or later)
- iPod Classic® (version 1.1.1 or later)
- First generation iPod touch® (version 2.0.0 or later)
- Second generation iPod touch® (version 1.2.3 or later)
- First generation iPod nano® (version 1.3.1 or later)
- Second generation iPod nano® (version 1.1.3 or later)
- Third generation iPod nano® (version 1.1 or later)
- Fourth generation iPod nano® (version 1.0.2 or later)

This unit may not control/operate correctly when connected to some iPod® versions/ firmware and iPhone®.

Make sure that the iPod® version is updated.

Audio main operation

Push the ignition switch to the ACC or ON position. Then, push the DISC·AUX button repeatedly to switch to the iPod® mode.

If the system has been turned off while the iPod® was playing, pushing the ON·OFF button will start the iPod®.

DISC·AUX PLAY:

When the DISC·AUX button is pushed with the system off and the iPod® connected, the system will turn on. If another audio source is playing and the iPod® is connected, push the DISC·AUX button repeatedly until the center display changes to the iPod® mode.

Interface:

The interface for iPod® operation shown on the vehicle center display is similar to the iPod® interface. Use the INFINITI controller and the ENTER or BACK button to play the iPod® with your favorite settings.

The following items can be chosen from the menu list screen. For further information about each item, see the iPod® Owner's Manual.

- Now Playing
- Playlists
- Artists
- Albums
- Songs
- Podcasts
- Genres
- Composers
- Audiobooks
- Shuffle Songs

The following touch-panel buttons shown on the screen are also available:

- MENU : returns to the previous screen.
- ▶II : plays/pauses the music selected.

TRACK ▶▶| |◀◀ SEEK · CAT Next/Previous Track and Fast Forward/Rewind:

When the TRACK ▶▶| or |◀◀ SEEK · CAT button is pushed for more than 1.5 seconds while the iPod® is playing, the iPod® will play while fast forwarding or rewinding. When the button is released, the iPod® will return to the normal play speed.

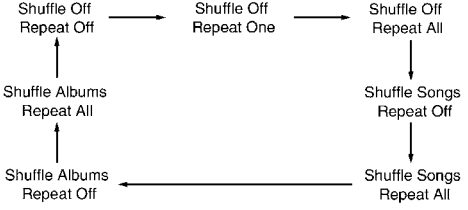
When the TRACK ▶▶| or |◀◀ SEEK · CAT button is pushed for less than 1.5 seconds while the iPod® is playing, the next track or the beginning of the current track on the iPod® will be played.

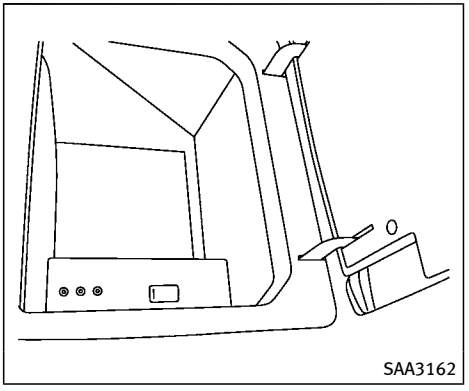
When the rewind button is pushed for less than 1.5 seconds within 3 seconds after the current track starts playing, the previous track will be played.

The INFINITI controller can also be used to select tracks when the iPod® is playing.

RDM · RPT Play pattern change:

When the RDM · RPT button is pushed while a track is being played, the play pattern can be changed as follows:





FRONT AUXILIARY INPUT JACKS

The front auxiliary input jacks are located in the console box. NTSC compatible devices such as video games, camcorders and portable video players can be connected to the auxiliary jacks. Compatible audio devices, such as some MP3 players, can also be connected to the system through the auxiliary jacks. The images from the connected device can be viewed on the front and rear displays.

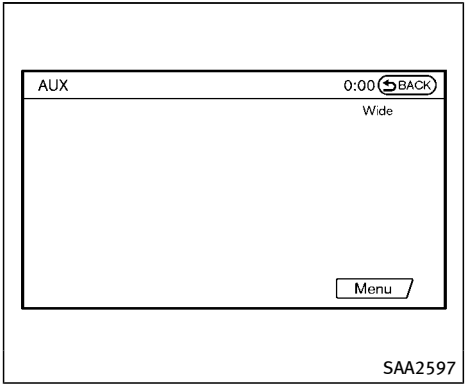
The auxiliary jacks are color coded for identification purposes.

- Yellow - video input

- White - left channel audio input
- Red - right channel audio input

Before connecting a device to a jack, turn off the power of the portable device.

With a compatible device connected to the jacks, push the DISC·AUX button repeatedly until the display switches to the AUX mode. The output from the device will be played through the monitor and audio system.



How to use AUX button

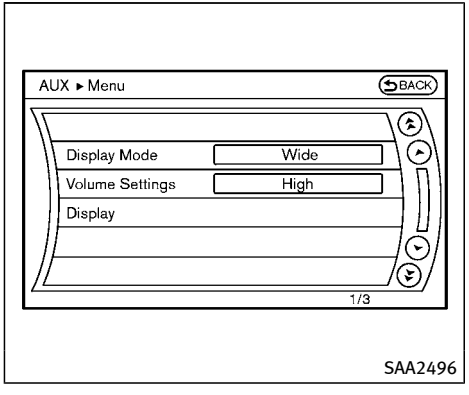
Images being played can be switched to the center display if a device is connected to the front auxiliary input jacks in the console box.

Push the DISC·AUX button on the instrument panel to perform switching. The above display will appear when the “Menu” key is selected using the INFINITI controller.

AUX video will not be displayed on the front display unless the parking brake is set.

- Models with Dual Head Restraint DVD System

 To display the front AUX images on the rear displays, push the SOURCE button on the remote controller for the Dual Head Restraint DVD System. (See “Dual head restraint DVD system” (P.4-89).)



AUX Menu

When the “Menu” key on the display is selected while in the AUX mode, the menu screen will be displayed.

Display Mode:

Choose the display mode from the following items.

- Normal
- Wide
- Cinema

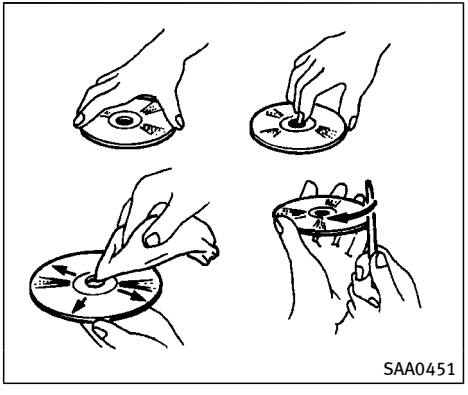
Volume Settings:

Choose the volume setting from the following items.

- Low
- Medium
- High

Display:

Adjust the image quality of the screen, select the preferred adjustment items.



CD/DVD/USB MEMORY CARE AND CLEANING

CD/DVD

- Handle a CD/DVD by its edges. Never touch the surface of the disc. Do not bend the disc.
- Always place the discs in the storage case when they are not being used.
- To clean a disc, wipe the surface from the center to the outer edge using a clean, soft cloth. Do not wipe the disc using a circular motion.

 Do not use a conventional record cleaner or alcohol intended for indus-

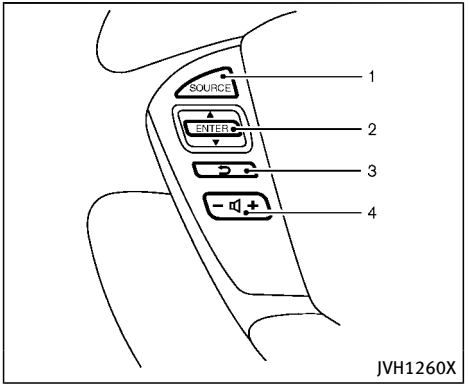
trial use.

- A new disc may be rough on the inner and outer edges. Remove the rough edges by rubbing the inner and outer edges with the side of a pen or pencil as illustrated.

USB memory

- Do not touch the terminal portion of the USB memory.
- Do not place heavy objects on the USB memory.
- Do not store the USB memory in highly humid locations.
- Do not expose the USB memory to direct sunlight.
- Do not spill any liquids on the USB memory.

Refer to the USB memory Owner's Manual for the details.



1. SOURCE select switch
2. Menu control switch
3. Back switch
4. Volume control switch

STEERING-WHEEL-MOUNTED CONTROLS FOR AUDIO

Menu control switch

While the display is showing a MAP, STATUS or Audio screen, tilt the switch upward or downward to select a station, track, CD or folder. For most audio sources, tilting the switch up/down for more than 1.5 seconds provides a different function than tilting up/down for less than 1.5 seconds.

AM and FM radio:

- Tilting up/down for less than 1.5 seconds will increase or decrease the preset station.
- Tilting up/down for more than 1.5 seconds will seek up or down to the next station.
- Pushing the menu control switch will show the list of preset stations.

SiriusXM Satellite Radio:

- Tilting up/down for less than 1.5 seconds will increase or decrease the preset channel.
- Tilting up/down for more than 1.5 seconds will go to the next or previous category.
- Pushing the menu control switch will show the XM menu.

iPod®:

- Tilting up/down for less than 1.5 seconds will increase or decrease the track number.
- Tilting up/down for more than 1.5 seconds will skip to the next or previous index.

- Pushing the menu control switch will show the iPod® menu.

CD:

- Tilting up/down for less than 1.5 seconds will increase or decrease the track number.
- Tilting up/down for more than 1.5 seconds will increase/decrease the folder number (if playing compressed audio files).
- Pushing the menu control switch will show the CD menu.

DVD:

- Tilting up/down for less than 1.5 seconds will increase or decrease the track number.
- Tilting up/down for more than 1.5 seconds will increase or decrease the title number.
- Pushing the menu control switch will select an item from the DVD display.
- When the transparent operation menu appears, the switch will control the menu.

USB:

- Tilting up/down for less than 1.5 seconds will increase or decrease the track number.
- Tilting up/down for more than 1.5 seconds will increase/decrease the folder number
- Pushing the menu control switch will show the USB menu.

Bluetooth® streaming audio:

- Tilting up/down for less than 1.5 seconds will increase or decrease the track number.

Back switch

Push this switch to go back to the previous screen or cancel the selection if it is not completed.

Volume control switches

Push the + or – side of the switch to increase or decrease the volume.

SOURCE select switch

Push the SOURCE select switch to change the mode to available audio source.

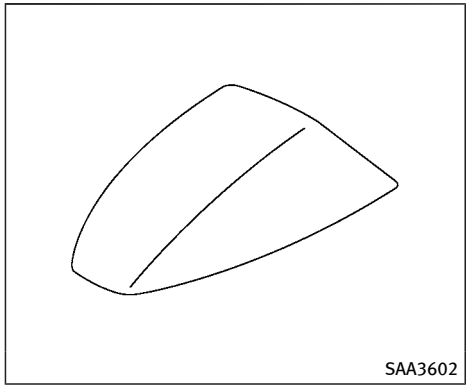
ANTENNA

Window antenna

The antenna pattern is printed inside the 3rd row seat window.

CAUTION

- **Do not place metalized film near the 3rd row seat window or attach any metal parts to it. This may cause poor reception or noise.**
- **When cleaning the inside of the 3rd row seat window, be careful not to scratch or damage the 3rd row seat window antenna. Lightly wipe along the antenna with a dampened soft cloth.**



Satellite antenna

There is a satellite antenna on the rear part of the vehicle roof.

DUAL HEAD RESTRAINT DVD SYSTEM (if so equipped)

If your vehicle is equipped with the Dual Head Restraint DVD System, you can enjoy playing video files via a DVD, CD or USB memory that provides images and sound both from the front and rear display screens.

You can also enjoy compatible auxiliary devices such as video games, camcorders or portable video players through the auxiliary jacks.

The front and right/left rear displays can show different sources individually. The maximum of 3 sources, such as an iPod®, DVD and auxiliary device, can be enjoyed at the same time.

⚠ WARNING

The driver must not attempt to operate the Dual Head Restraint DVD System while driving so full attention may be given to vehicle operation.

Park the vehicle in a safe location and apply the parking brake to view the images on the front center display screen using the DVD player.

⚠ CAUTION

- **Do not attempt to use the system in extremely high or low temperature condition [below –4°F (–20°C) or above 158°F (70°C)].**
- **To avoid draining the vehicle battery, do not operate the system for more than 15 minutes without starting the engine.**

The front display is designed not to show the images while driving, as the driver's attention must be given to vehicle operation for safety. Sounds are available. To show the images in the front display, stop the vehicle in a safe location, move the shift lever to the P (Park) position and apply the parking brake.

LICENSES

Natune surround sound

natune SURROUND SOUND

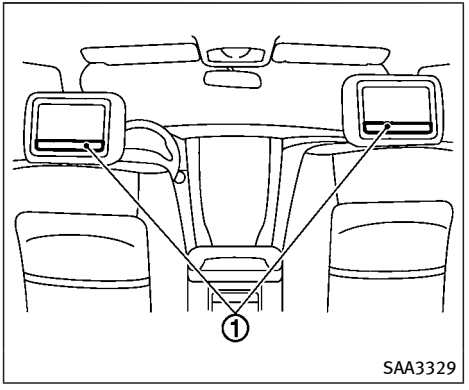
Natune surround sound is a general term for the family of the latest acoustic signal processing technology produced by DiMAGIC Co., Ltd.

SYSTEM COMPONENTS

Rear displays

CAUTION

- **The glass screen on the liquid crystal display may break if hit with a hard or sharp object. If the glass breaks, do not touch the liquid crystalline material. In case of contact with skin, wash immediately with soap and water.**
- **Use soft, damp cloth when cleaning the Dual Head Restraint DVD System components. Do not use solvents or cleaning solutions.**



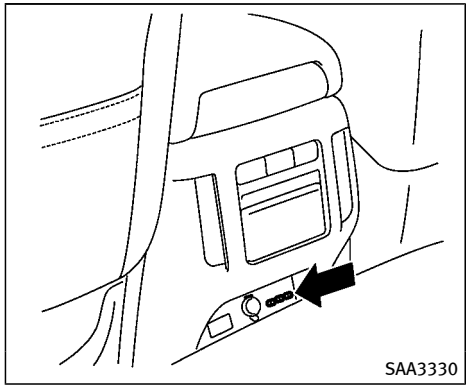
The rear displays are located on the back of the front head restraints.

Use the remote controller to operate the rear display screen.

Select the left or right rear display using the rear display select switch on the remote controller and push the ⏻ power button to activate the corresponding rear display.

The rear screens can also be activated using the INFINITI controller. (See “REAR DISPLAY settings” (P.4-14).)

Do not block the range of the wireless remote controller receiver and wireless headphones transmitter ①.



Rear auxiliary input jacks

The rear auxiliary input jacks are located at the rear of the center console. NTSC/PAL compatible devices can be connected to the auxiliary jacks. The images from the connected device can be viewed on the rear displays.

The rear auxiliary jacks are color coded for identification purposes.

- Yellow - video input
- White - left channel audio input
- Red - right channel audio input

Before connecting a device to a jack, turn off the power of the portable device.

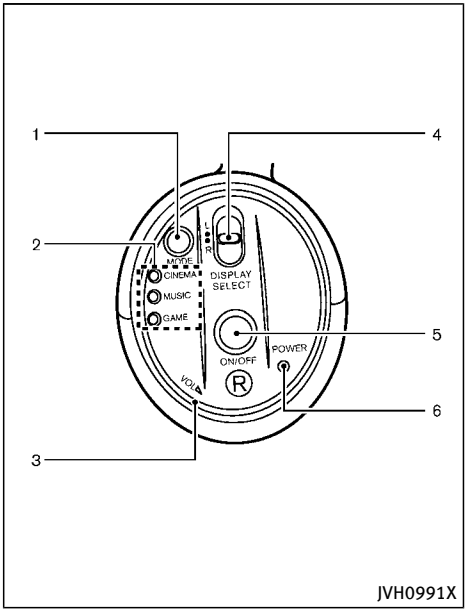
To display the AUX screen, select the left or right rear display using the rear display select switch on the remote controller, and select the AUX mode after pushing the SOURCE button on the remote controller.

The AUX screen cannot be displayed on the front screen.

The remote controller cannot be used for the portable device.

Headphones

Two wireless headphones are provided with the Dual Head Restraint DVD System. The headphones can only be used in the rear seats.

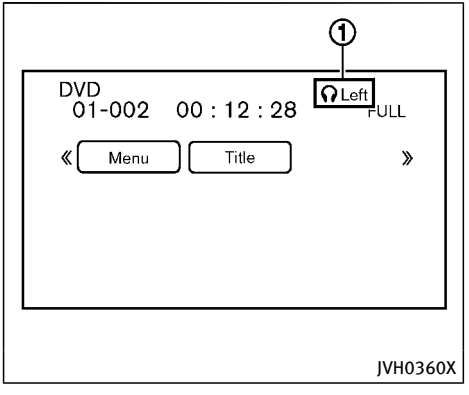


1. MODE button
2. Mode indicators
3. VOL (volume) control dial
4. DISPLAY SELECT switch
5. Power ON/OFF button
6. POWER indicator

How to use headphones:

Control buttons for the headphones are located on the back of the right headphone speaker.

- **Turning power on/off:**
 Push the power ON/OFF button to turn the headphones on or off. The POWER indicator will illuminate when the headphones are on.
- **Selecting display (L/R):**
 When the rear displays are playing different sources, sliding the DISPLAY SELECT switch selects which of the audio sources to listen to.
 — L: the headphone will play audio from the source playing on the left display.
 — R: the headphone will play audio from the source playing on the right display.



The selected headphone channel (“Left” or “Right”) ① will appear on the menu screen on the rear display.

- **Adjusting volume:**
 Turn the VOL control dial to adjust the volume.
- **Changing surround audio modes:**
 Three types of virtual surround modes supported by natune surround sound technology are available. Push the MODE button to select a surround audio mode optimal for the media. The indicator of the selected mode will illuminate.
 — CINEMA:
 Optimum mode for movies. Provides powerful surround audio as if you are in a theater.
 — MUSIC:
 Provides natural and clear sounds with stability optimal for listening to music.
 — GAME:
 Provides realistic effort for playing games with bass enhanced sounds.

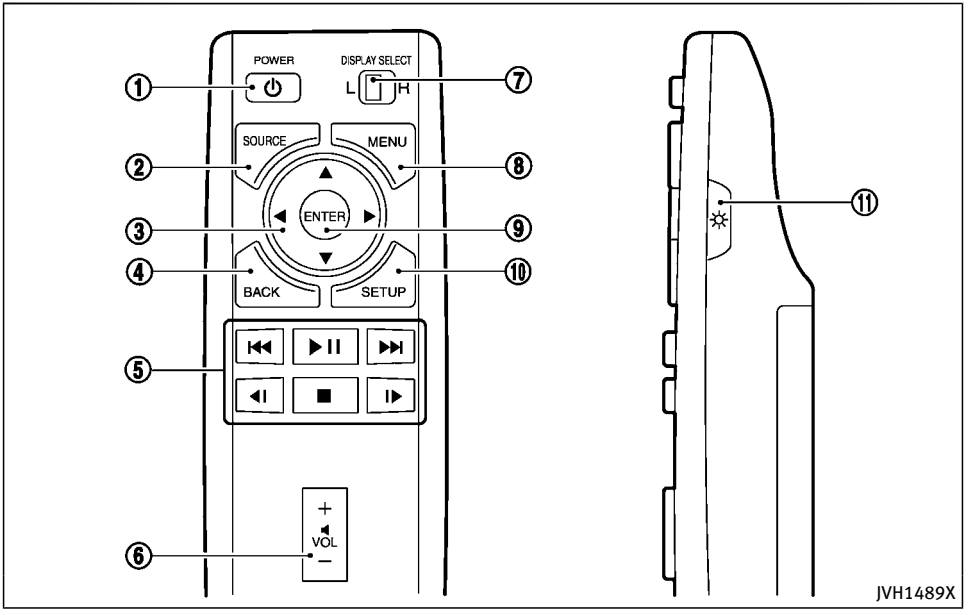
 When all of virtual surround modes are turned off, audio adjustment functions are turned off and a regular 2.0 ch stereo mode is applied.

Operating tips:

- The headphones will automatically turn off in about 4 minutes if there is no audio output during that period. The headphones will also turn off after approximately 4 hours of continuous use. To prevent the battery from being discharged, keep the power turned off when not in use.
- If the sound from the headphones is not clear, it may be due to interference from an infrared communication device or a cellular phone. If this happens, turn down the headphone volume or stop

using the headphones. It is also possible that the headphones may be too far from the transmitter which is in the rear display screen.

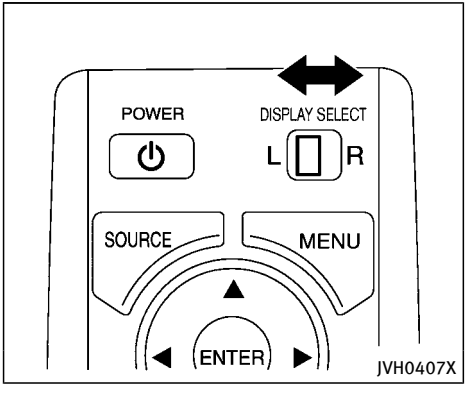
- The sound may also be interrupted temporarily when there is an obstacle between the headphones and the transmitter. Remove the obstacle, such as opaque materials, hands, hair, etc.



1. ⏻ POWER button
2. SOURCE button
3. Select button (▲ , ▼ , ◀ or ▶)
4. BACK button
5. Keypad
6. Volume control button (+ or −)
7. Rear display select switch
8. MENU button
9. ENTER button
10. SETUP button
11. ☼ Key illumination button

See “Remote controller operation” (P.4-

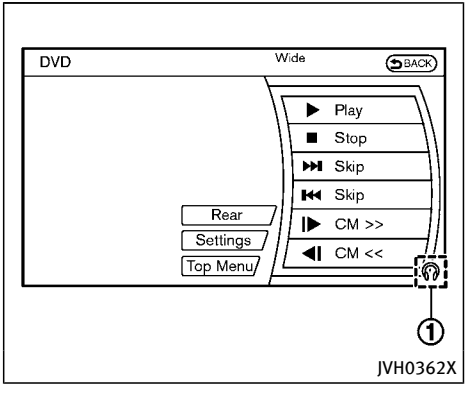
100) for the function of each button.



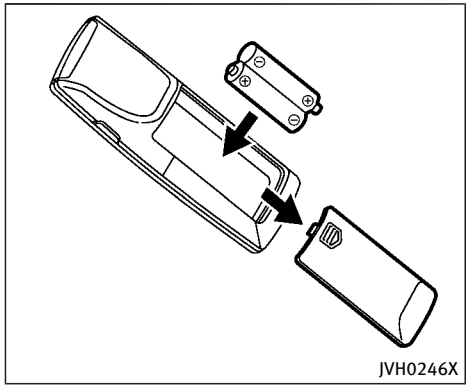
Remote controller

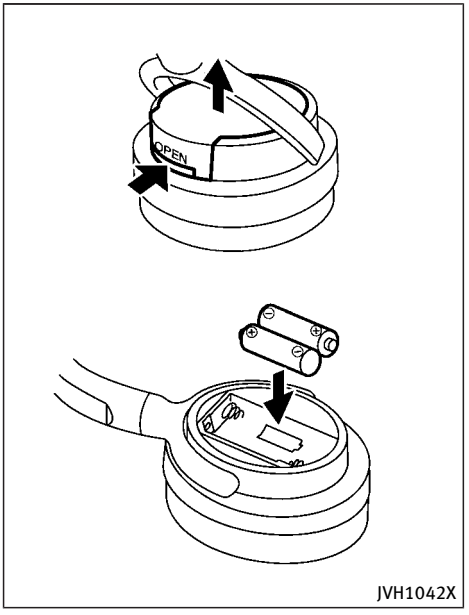
Activating rear display:

Select the left or right rear display using the rear display select switch on the remote controller and push the ⏻ Power button to activate the corresponding rear display.



When the rear display is on, the icon ① will be displayed.


JVH0246X



JVH1042X

Remote controller and headphones battery replacement

CAUTION

- **An improperly disposed battery can harm the environment. Always confirm local regulations for battery disposal.**
- **When changing batteries, do not let dust or oil get on the components.**

NOTE:

- **Change the batteries of the remote controller when it does not function properly.**
- **Change the batteries of the headphones when it stops functioning while playing or when it produces noise.**

To replace the battery:

1. Open the lid as illustrated.
 - For headphones, use a flat object such, as a coin, if necessary to open the lid located on the back of the left headphone speaker.
2. Replace both batteries with new ones.
 - Recommended battery:
 Size AA × 2 (remote controller)

Size AAA × 2 (headphones)

- Be careful not to touch the battery terminal.
- Make sure that the ⊕ and ⊖ ends on the batteries match the markings inside the compartment.

3. Close the lid securely.
 - If you will not be using the remote controller for long periods of time, remove the batteries.
 - Replacement of the batteries is needed when the remote controller only functions at extremely close distances to the Dual Head Restraint DVD System or when it does not function at all.

FCC Notice:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules and RSS-210 of Industry Canada. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.

BEFORE OPERATING DUAL HEAD RESTRAINT DVD SYSTEM

Precautions

Start the engine when using the Dual Head Restraint DVD System.

WARNING

The driver must not attempt to operate the Dual Head Restraint DVD System or wear the headphones while the vehicle is in motion so that full attention may be given to vehicle operation.

CAUTION

- **Only operate the Dual Head Restraint DVD System while the vehicle engine is running. Operating the Dual Head Restraint DVD System for extended periods of time with the engine OFF can discharge the vehicle battery.**
- **Do not allow the system to get wet. Excessive moisture such as spilled liquids may cause the system to malfunction.**
- **While playing VIDEO-CD media, this DVD player does not guarantee complete functionality of all VIDEO-CD formats.**

Parental level (parental control)

Video data with the parental control setting can be played with this system. Please use your own judgement to set the parental control with the system.

Disc selection

You can play the following disc formats with the DVD player:

- DVD-VIDEO
- VIDEO-CD
- DTS-CD

Use DVDs with the region code "ALL" or the code applicable to your country. (The region code is displayed as a small symbol printed on the top of the DVD.) This vehicle-installed DVD player can only play DVDs with an applicable region code.

Available sources

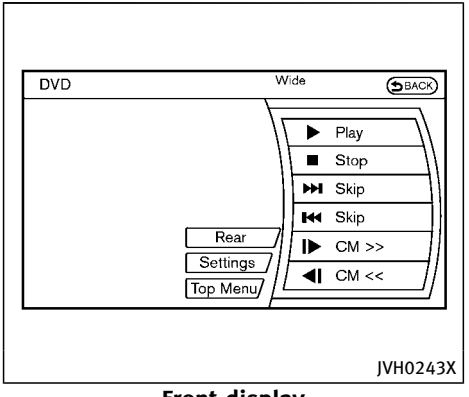
The following sources are available to play on each display:

Front display:

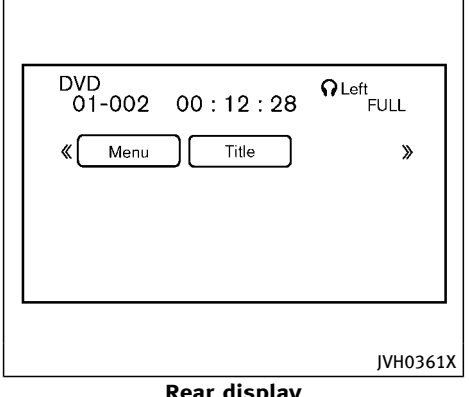
- Radio
- CD/DVD
- USB memory/iPod®
- Bluetooth® audio
- AUX (front)

Rear display:

- DVD
- USB memory with video files
- AUX (front/rear)



Front display



Rear display

PLAYING DIGITAL VERSATILE DISC (DVD)/USB

DISC·AUX button

Park the vehicle in a safe location and apply the parking brake to operate the DVD player while watching the images.

Push the DISC·AUX button on the instrument panel and turn the display to the DVD or USB mode.

When a DVD or USB is loaded, it will be replayed automatically.

If “Auto Display” is set to ON in the settings screen for the rear display, a DVD or USB movie file will be read automatically when the power is turned on. (See “REAR DISPLAY settings” (P.4-14).)

The operation screen will be turned on when the DISC·AUX button is pushed while a DVD or USB movie file is being played, and it will turn off automatically after a period of time. To turn it on again, push the DISC·AUX button again.

DVD/USB operation keys

To operate the DVD/USB movie file, select the preferred key displayed on the operation screen using the INFINITI controller.

If you perform an operation with the remote controller, a symbol will be displayed on the lower left part of the rear seat screens indicating the function performed. This symbol will automatically turn off if no remote controller operation is performed for a specified period of time.

⏸ Pause:

Select the " ⏸ " key and push the ENTER button to pause the DVD/USB movie file. To resume playing the DVD/USB movie file, use the "PLAY" key.

To pause the DVD/USB movie file, it is also possible to push the "►/⏸" button on the keypad of the remote controller.

▶ Play:

Select the " ▶ " key and push the ENTER button to start playing the DVD/USB movie file, for example, after pausing the DVD/USB movie file.

To start playing the DVD/USB movie file, it is also possible to push the ►/⏸ button on the keypad of the remote controller.

■ Stop:

Select the " ■ " key and push the ENTER button to stop playing the DVD/USB movie file.

To stop playing the DVD/USB movie file, it is also possible to push the ■ button on the keypad of the remote controller.

▶▶| Skip (FORWARD):

Select the " ▶▶| " key and push the ENTER button to skip the chapter(s) of the disc forward. The chapters will advance the number of times the ENTER button is pushed.

To skip the chapter(s) forward, it is also possible to push the ▶▶| button on the keypad of the remote controller.

|◀◀ Skip (REWIND):

Select the " |◀◀ " key and push the ENTER button to skip the chapter(s) of the disc backward. The chapters will go back the number of times the ENTER button is pushed.

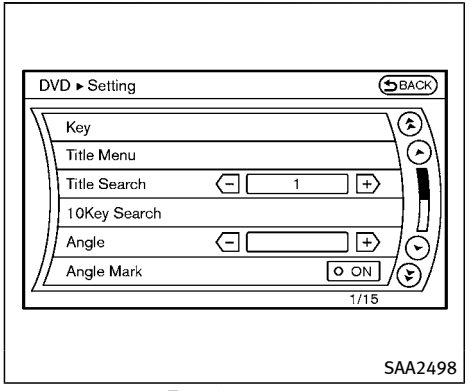
To skip the chapter(s) backward, it is also possible to push the |◀◀ button on the keypad of the remote controller.

|▶ / ◀| Commercial Skip:

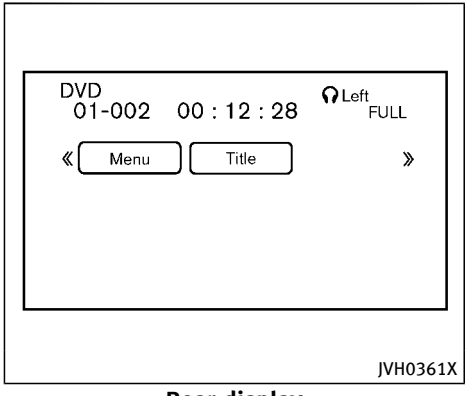
This function is only for DVD-VIDEO and DVD-VR.

Select the " |▶ " or " ◀| " key to skip forward or backwards by the set amount as defined in the DVD settings menu.

To skip forward or backward, it is also possible to push the |▶ or ◀| button on the keypad of the remote controller.



Front screen



Rear display

Setting menu

Select the “Settings” key on the display with the INFINITI controller and push the ENTER button to adjust the following settings.

The items indicated with “ * ” can also be set from the rear display. Push the SOURCE button on the remote and select “DVD”/“USB” shown on the rear screen while a DVD/USB movie file is being played. Select the preferred item using the select button ▲ ▼ ◀ ▶ on the remote controller and push the ENTER button.

Key (DVD-VIDEO):

Keys for the DVD menu operation are displayed.

:	Move the cursor to select a DVD menu.
Enter:	Enter the selected menu.
Move:	Change the display location by moving the operation key.
Back:	Return to the previous screen.
Hide:	Hide the operation key.

Title Menu (front)/Menu (rear)* (DVD-VIDEO):

Menus specific to each disc will be shown. For details, see the instructions attached to the disc.

Title Search* (DVD-VIDEO):

A scene that belongs to a specified title will be displayed each time the “+” side or “–” side is selected.

10 Key Search* (DVD-VIDEO, VIDEO-CD, CD-DA):

Select the “10 Key Search” key and push the ENTER button to open the number entry screen.

Input the number you want to search for and select the “OK” key with the INFINITI controller. Then push the ENTER button. The specified Title/Chapter or Group/Track will be played.

Angle* (DVD-VIDEO):

If the DVD contains different angles (such as moving images), the current image angle can be switched to another one.

Select the “Angle” key and push the ENTER button. When the “+” side or “–” side is selected, the angle will change.

Angle Mark (DVD-VIDEO):

When this item is turned on, an angle mark will be shown on the bottom of the screen if the scene can be seen from a different angle.

Menu Skip (DVD-VIDEO):

DVD menus are automatically configured and the contents will be played directly when the “Menu Skip” key is turned on. Note that some discs may not be played directly even if this item is turned on.

CM Skip (DVD-VIDEO):

The amount of seconds for CM Skip can be set to 15, 30 or 60 seconds.

DRC (DVD-VIDEO):

DRC (Dynamic Range Compression) allows tuning of the dynamic range of sound recorded in the Dolby Digital format.

DOWN MIX (DVD-VIDEO) (if so equipped):

Convert a multi-channel recording to a traditional two-channel (stereo) recording.

DVD Language (DVD-VIDEO, VIDEO-CD):

Select the “DVD Language” key and push the ENTER button to open the number entry screen.

Input the number corresponding to the preferred language and select the “OK” key with the INFINITI controller. Then push the ENTER button. The DVD top menu language will be changed to the one selected.

Display:

Adjust the image quality of the screen, select the preferred adjustment items and push the ENTER button.

Audio*:

Choose the preferred language using the INFINITI controller and push the ENTER button.

Subtitle* (DVD-VIDEO):

Choose the preferred language using the INFINITI controller and push the ENTER button.

To turn off the subtitles, push and hold the ENTER button until a beep sounds.

Display Mode (DVD-VIDEO, VIDEO-CD):

Choose from the “Full”, “Wide”, “Normal” or “Cinema” mode using the INFINITI controller and push the ENTER button again.

Play Mode:

Choose the preferred play mode using the INFINITI controller and push the ENTER button.

Surround Information* (if so equipped):

Display surround sound information.

Remote controller operation

Use the remote controller to adjust the following items.

Rear display select switch:

To activate the left screen or right screen, move the rear display select switch on the remote controller to the side corresponding to the screen you want to activate (L or R).

POWER button:

The rear displays can be activated or deactivated individually.

To activate or deactivate the rear displays, push the button on the remote controller.

SOURCE button:

The media available for playback will be displayed when the SOURCE button is pushed.

MENU button:

Push the MENU button to display the operation screen for the source that is

being played.

▲ ▼ ◀ ▶ Select button:

Push the select button ▲, ▼ ◀ ▶ to select the items displayed on the rear screen.

ENTER button:

Push the ENTER button to confirm the setting for the selected item.

SETUP button:

Push the SETUP button to display the rear seat display settings. (See “Rear display settings” (P.4-101).)

BACK button:

Push to go back to the previous screen or cancel the selection.

Volume:

To adjust the speaker volume push + or − on the volume control button.

This button is used to control the volume from the vehicle speakers. To adjust the volume of the headphones, use the volume knob that is attached to the headphones.

Keypad:

- ►/II: PLAY/PAUSE button
- ■ : STOP button
- ►►I : FORWARD button
- I◄◄ : REWIND button
- I► : FORWARD button for commercial skip (for DVD-VIDEO and DVD-VR)
- ◄I : REWIND button for commercial skip (for DVD-VIDEO and DVD-VR)

Key illumination button:

If the key illumination button is pushed, the buttons on the remote controller will be lit up.

Rear display settings

Display mode adjustment of the rear seat displays can be performed while a DVD or USB movie is being played. Set the rear display select switch on the remote controller to either L or R according to the display you want to set, and then push the SETUP button. It is not possible to make display mode adjustments to the left and right displays at the same time.

Aspect:

Select the display size from “FULL”, “NORMAL”, “CINEMA” or “WIDE”.

Picture Mode:

Select the Picture Mode from “NORMAL”, “DYNAMIC”, “CINEMA”, “GAME” .

To adjust the display brightness automatically, select the “Brightness” key and then select from “DARKER”, “NORMAL” or “BRIGHTER”. When adjusting manually, select “OFF” and push ENTER button on the remote controller.

To adjust tint, color or contrast, select a key using the select button (◀ or ▶), push ENTER on the remote controller.

Push the BACK button on the remote controller to apply the settings and return to the previous display.

To return the adjustment levels to the default value, select “Execute” next to “Initialization” push the select button (▲, ▼) on the remote controller and push the ENTER button. The “Execute” key is deactivated when the picture mode settings are already in the default value.

Color System:

To choose the color system, select from “NTSC”, “PAL”, “PAL-60”, “PAL-M”, “PAL-N” or “AUTO” .

3D Y/C filter:

Set to ON/OFF push the select button (◀ or ▶) and push ENTER button on the remote controller. When turned on, small characters and an outline of the shapes will be displayed more clearly than when turned off.

AUX Volume Setting:

This is only active when in the Rear AUX mode. To set the AUX volume, select from “HIGH”, “LOW” or “MIDDLE” .

OPERATING TIPS

- The images from a device that is connected to the rear auxiliary input jacks cannot be viewed on the front displays.
- It is not possible to display different video files, such as DVD or video files in the USB memory, on the front and rear displays at the same time.
- It is not possible to play an audio file and a video file in the same USB memory at the same time.

Multiple source display

It is possible to play different sources on each display. The following example shows how to operate multiple sources.

It is also possible to set in the front display. For more details, see “REAR DISPLAY settings” (P.4-14).

1. Display a video file in the front display by selecting the DVD mode.
2. Set the rear display select switch on the remote controller to the L side and push the POWER button. The left rear display will turn on and the DVD screen will be displayed.

 (If “Auto Display” is set to ON, the display will turn on automatically.)
3. Set the rear display select switch on the remote controller to the R side and push the POWER button. The right rear display will turn on and the DVD screen will be displayed.

 (If “Auto Display” is set to ON, the display will turn on automatically.)
4. Switch the source on the front display to an audio source. The sound from the speakers switches according to the front display. The rear display continues to display the DVD.
5. Turn on a pair of headphones and listen to the DVD on the rear displays using the headphones.
6. Connect an auxiliary device to the AUX jack, set the rear display select switch to the L or R side and push the SOURCE button to select “Rear AUX”. The selected side of the rear display will switch to the AUX mode. The other rear display will continue to display the DVD.
7. Turn on the other pair of headphones. If the sound from the headphones is not from the AUX jacks, switch the channel with the channel select switch on the headphones.

CARE AND MAINTENANCE

Use a lightly dampened, lint free cloth to clean the surfaces of your Dual Head Restraint DVD System (DVD player face, screen, remote controller, etc.).

⚠ CAUTION

- **Do not use any solvents or cleaning solutions when cleaning the video system.**
- **Do not use excessive force on the monitor screen.**
- **Avoid touching or scratching the monitor**

screen as it may become dirty or damaged.

- Do not attempt to operate the system in extreme temperature conditions [below –4°F (–20°C) and above 158°F (70°C)].
- Do not attempt to operate the system in extreme humidity conditions (less than 10% or more than 75%).

CAR PHONE OR CB RADIO

When installing a car phone or a CB radio in your vehicle, be sure to observe the following cautions, otherwise the new equipment may adversely affect the electronic control modules and electronic control system harness.

WARNING

- A cellular phone should not be used for any purpose while driving so full attention may be given to vehicle operation. Some jurisdictions prohibit the use of cellular phones while driving.
- If you must make a call while your vehicle is in motion, the hands-free cellular phone operational mode (if so equipped) is highly recommended. Exercise extreme caution at all times so full attention may be given to vehicle operation.
- If a conversation in a moving vehicle requires you to take notes, pull off the road to a safe location and stop your vehicle before doing so.

CAUTION

- Keep the antenna as far away as possible from the electronic control modules.
- Keep the antenna wire more than 8 in (20 cm) away from the electronic control system harness. Do not route the antenna wire next to any harness.
- Adjust the antenna standing-wave ratio as recommended by the manufacturer.
- Connect the ground wire from the CB radio chassis to the body.
- For details, it is recommended you visit an INFINITI retailer.

⚠ WARNING

- **Use a phone after stopping your vehicle in a safe location. If you have to use a phone while driving, exercise extreme caution at all times so full attention may be given to vehicle operation.**
- **If you find yourself unable to devote full attention to vehicle operation while talking on the phone, pull off the road to a safe location and stop your vehicle before doing so.**

⚠ CAUTION

To avoid draining the vehicle battery, use a phone after starting the engine.

Your INFINITI is equipped with Bluetooth® Hands-Free Phone System. If you are an owner of a compatible Bluetooth® enabled cellular phone, you can set up the wireless connection between your cellular phone and the in-vehicle phone module. With Bluetooth® wireless technology, you can make or receive a telephone call with your cellular phone in your pocket.

Once a cellular phone is connected to the in-vehicle phone module, no phone connecting procedure is required anymore. Your phone is automatically connected with the in-vehicle phone module when the ignition switch is pushed to the ON position with the registered cellular phone turned on and carried in the vehicle.

You can register up to 5 different Bluetooth® cellular phones in the in-vehicle phone module. However, you can talk on only one cellular phone at a time.

The INFINITI Voice Recognition system supports the phone commands, so dialing a phone number using your voice is possible. For more details, see “INFINITI Voice Recognition system” (P.4-114).

Before using the Bluetooth® Hands-Free Phone System, refer to the following notes.

- Wireless LAN (Wi-Fi) and the Bluetooth® functions share the same frequency band (2.4 GHz). Using the Bluetooth® and the wireless LAN functions at the same time may slow down or disconnect the communication and cause undesired noise. It is recommended that you turn off the wireless LAN (Wi-Fi) when using the Bluetooth® functions.
- Set up the wireless connection between a compatible cellular phone and the in-vehicle phone module before using the Bluetooth® Hands-Free Phone System.
- Some Bluetooth® enabled cellular phones may not be recognized by the in-vehicle phone module. Please visit www.InfinitiUSA.com/bluetooth for a recommended phone list.
- You will not be able to use a hands-free phone under the following conditions:
 - Your vehicle is outside of the telephone service area.
 - Your vehicle is in an area where it is difficult to receive radio waves; such as in a tunnel, in an underground parking garage, behind a tall building or in a mountainous area.
 - Your cellular phone is locked in order not to be dialed.
- When the radio wave condition is not ideal or ambient sound is too loud, it may be difficult to hear the other person’s voice during a call.
- Immediately after the ignition switch is pushed to the ON position, it may be impossible to receive a call for a short period of time.

- Do not place the cellular phone in an area surrounded by metal or far away from the in-vehicle phone module to prevent tone quality degradation and wireless connection disruption.
- While a cellular phone is connected through the Bluetooth® wireless connection, the battery power of the cellular phone may discharge quicker than usual.
- If the Bluetooth® Hands-Free Phone System seems to be malfunctioning, please visit www.InfinitiUSA.com/bluetooth for troubleshooting help.
- Some cellular phones or other devices may cause interference or a buzzing noise to come from the audio system speakers. Storing the device in a different location may reduce or eliminate the noise.
- Refer to the cellular phone Owner's Manual regarding the telephone pairing procedure specific to your phone, battery charging, cellular phone antenna, etc.
- The antenna display on the monitor will not coincide with the antenna display of some cellular phones.
- Keep the interior of the vehicle as quiet as possible to hear the caller's voice clearly as well as to minimize its echoes.
- If reception between callers is unclear, adjusting the incoming or outgoing call volume may improve the clarity.

REGULATORY INFORMATION

FCC Regulatory information

- CAUTION: To maintain compliance with FCC's RF exposure guidelines, use only the supplied antenna. Unauthorized antenna, modification, or attachments could damage the transmitter and may violate FCC regulations.
- Operation is subject to the following two conditions:

1. this device may not cause interference and
2. this device must accept any interference, including interference that may cause undesired operation of the device

IC Regulatory information

- Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.
- This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

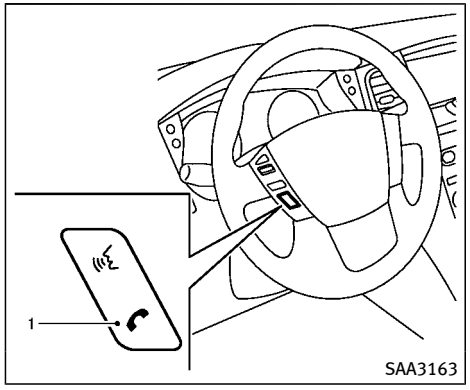
Bluetooth trademark:

Bluetooth® is a trademark owned by Bluetooth SIG, Inc., and licensed to Clarion Co., Ltd.

VOICE COMMANDS

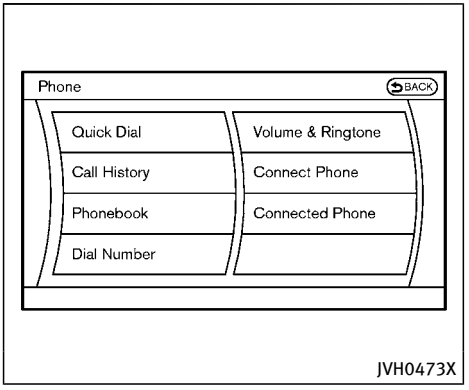
You can use voice commands to operate various Bluetooth® Hands-Free Phone System features using the INFINITI Voice Recognition system.

For more details, see "INFINITI Voice Recognition system" (P.4-114).



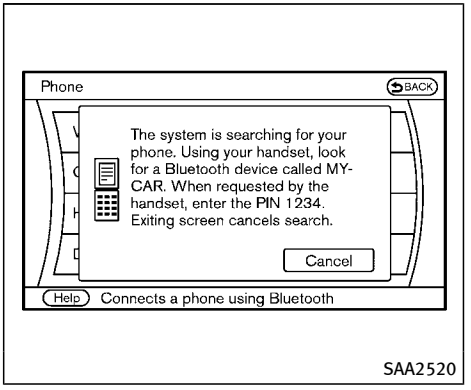
CONTROL BUTTONS

1) PHONE SEND button



CONNECTING PROCEDURE

1. Push the button, and select the “Connect Phone” key.



2. When a PIN code appears on the screen, operate the compatible Bluetooth® cellular phone to enter the PIN code.

 The connecting procedure of the cellular phone varies according to each cellular phone. See the cellular phone Owner’s Manual for the details. You can also visit

 www.InfinitiUSA.com/bluetooth or call INFINITI Consumer Affairs Department for instructions on pairing INFINITI recommended cellular phones.

 When the connection process is completed, the screen will return to the

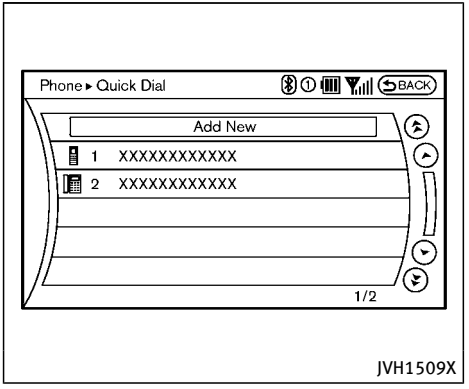
Phone menu display.

PHONE SELECTION

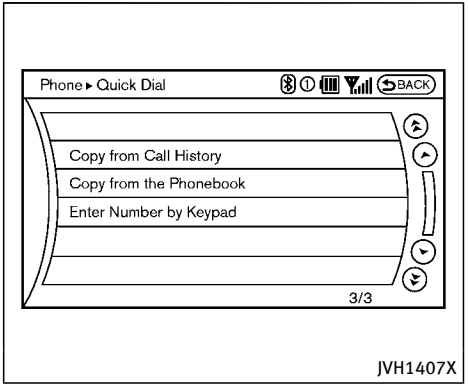
Up to 5 cellular phones can be registered to the system. To switch to connect another cellular phone, push PHONE button and select the “Connected Phones” key. The registered cellular phones are shown on the list. If you select a cellular phone that is different from the one currently connected, the newly selected phone will be connected to the system.

QUICK DIAL

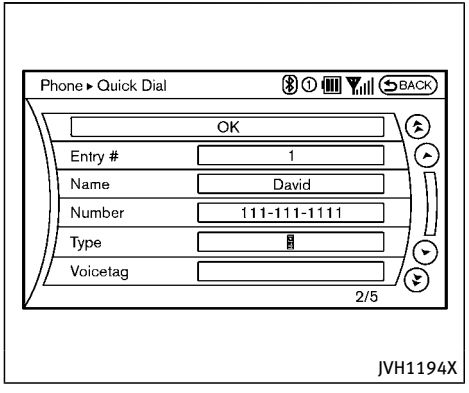
This vehicle has two phonebooks available for hands-free use. Depending on the phone, the system may automatically download the entire cell phone’s phonebook into the “Phonebook”. For the details about downloading a phonebook, see “Phone setting” (P.4-111). If a phonebook does not automatically download, the Quick Dial may be set for up to 40 entries. This Quick Dial allows the recording of a name to speak while using voice recognition.



1. Push the button and select the “Quick Dial” key.
2. Select the “Add New” key at the top of the screen.



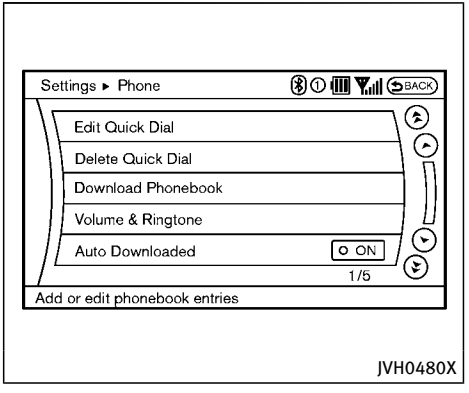
3. Choose the method for entering the Quick Dial entry. For this example, select “Enter Number by Keypad”.
4. Enter the digits and select the “OK” key. (See “How to use touch screen” (P.4-4).)



5. Select the “Voicetag” key to record a name to speak when using the INFINITI Voice Recognition system.
6. Select the “Store” key and prepare to speak the name after the tone.
7. When the voicetag is successfully saved, select the “OK” key to save the Quick Dial entry.
8. After the Quick Dial entry is saved, it will show a screen that is ready to call the number. Push the BACK button to return to the Quick Dial.

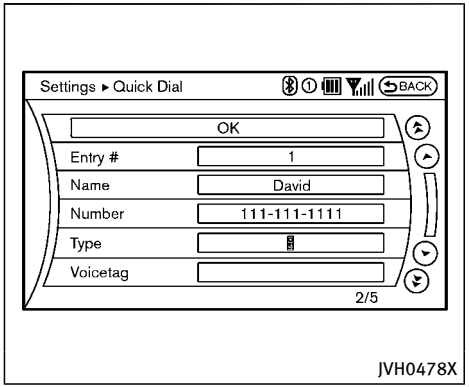
There are different methods to input a phone number. Select one of the following options instead of “Enter Number by Keypad” in step 3.

- **Copy from Call History**
 The system will show a list of incoming, outgoing or missed calls that were downloaded from the connected cellular phone (depending on the phone’s compatibility). Select one of these entries to save in the Quick Dial.
- **Copy from the Phonebook**
 The system will show the connected cellular phone’s phonebook that was downloaded (depending on the phone’s compatibility). Select one of these entries to save in the Quick Dial.



Editing the Quick Dial

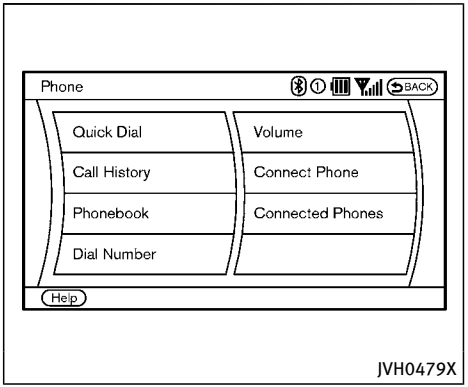
1. Push the SETTING button and select the “Phone” key.
2. Select the “Edit Quick Dial” key.
3. Select the desired entry from the displayed list.
4. Select the desired item to change.



The following editing items are available:

- Entry #
 Changes the displayed number of the selected entry.
- Name
 Edit the name of the entry using the keypad displayed on the screen.
- Number
 Edit the phone number using the keypad displayed on the screen.
- Type
 Select an icon from the icon list.
- Voicetag
 Confirm and store the voicetag. Voicetags allow easy dialing using the INFINITI Voice Recognition system. (See “INFINITI Voice Recognition system” (P.4-114).)

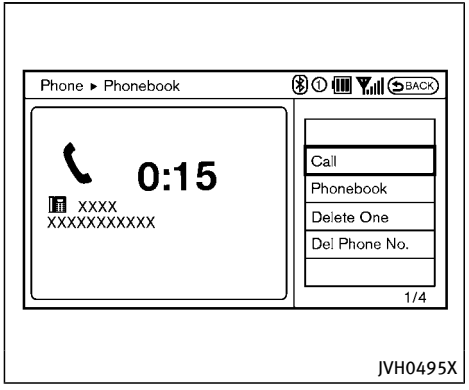
To delete an entry, select the “Delete” key at step 3.



MAKING A CALL

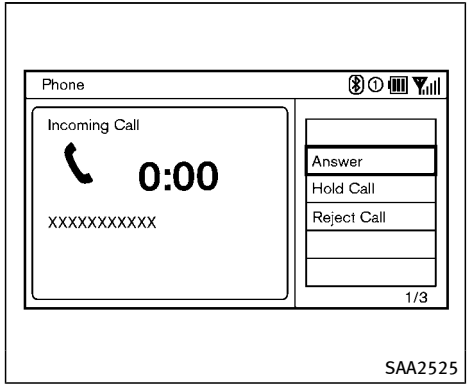
To make a call, follow this procedure.

1. Push the button on the steering wheel. The “PHONE” screen will appear on the display.
2. Select the “Phonebook” key on the “PHONE” menu.
3. Select the desired entry from the list.
4. Confirm the correct entry by selecting for the correct number from the list.



There are different methods to make a call. Select one of the following options instead of “Phonebook” in step 2 above.

- **Quick Dial**
 Select an entry stored in the Quick Dial.
- **Call History**
 Select an outgoing, incoming or missed call downloaded from your cell phone (depending on your phone’s compatibility).
- **Dial Number**
 Input the phone number manually using the keypad displayed on the screen. (See “How to use touch screen” (P.4-4).)



RECEIVING A CALL

When you hear a phone ring, the display will change to the incoming call mode. To receive a call, perform one of the following procedures listed below.

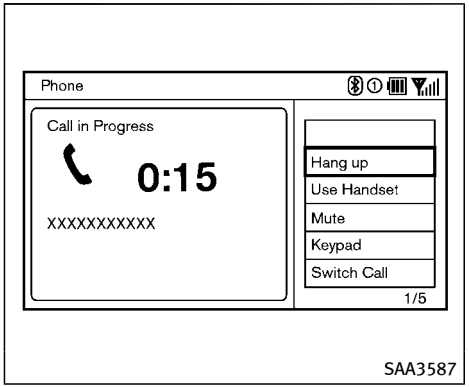
1. Select the “Answer” key.
2. Push the button on the steering wheel.

There are some options available when receiving a call. Select one of the following displayed on the screen.

- **Answer**
 Accept an incoming call to talk.
- **Hold Call**
 Put an incoming call on hold.
- **Reject Call**
 Reject an incoming call.

To finish the call, perform one of the following procedures listed below.

1. Select the “Hang up” key.
2. Push the button on the steering wheel.

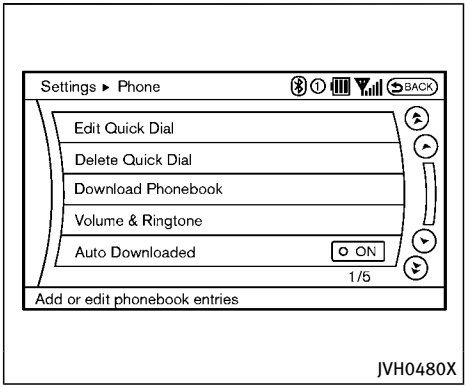


DURING A CALL

There are some options available during a call. Select one of the following displayed on the screen if necessary.

- **Hang up**
 Finish the call.
- **Use Handset**
 Transfer the call to the cellular phone.
- **Mute**
 Mute your voice to the person.
- **Keypad**
 Using the touch tone, send digits to the connected party for using services such as voicemail.
- **Cancel Mute**
 This will appear after “Mute” is selected. Mute will be canceled.
- **Switch Call***
 Select “Switch Call” to answer another incoming call. By selecting “Hang up”, you can end a call and can speak to a caller who is on hold again.
 * This function may not be usable, depending on the model of phone.

To adjust the person’s voice to be louder or quieter, push the volume control switch (+ or –) on the steering wheel or turn the volume control knob on the instrument panel while talking on the phone. This adjustment is also available in the SETTING mode.



PHONE SETTING

To set up the Bluetooth® Hands-Free Phone System to your preferred settings, push the SETTING button on the instrument panel and select the “PHONE” key.

Edit Quick Dial

To edit the Quick Dial, use the same procedure as described in “Quick Dial” (P.4-107).

Delete Quick Dial

The Quick Dial entries can be deleted all at the same time or one by one.

Download Phonebook

Download the contacts registered in a Bluetooth® cellular phone. Availability of this function depends on each cellular phone. The memory downloading procedure from the cellular phone also varies according to each cellular phone. See cellular phone Owner's Manual for details.

When "Auto Downloaded" is active, the system will automatically re-download the entries registered in the phone every time it is paired with the vehicle, even after you delete the entries from your vehicle's Handset Memory.

Volume & Ringtone

The following kinds of phone volume can be set. Pushing the PHONE button and selecting the "Volume & Ringtone" key can also operate the same settings.

- **Ringtone/Incoming Call/Outgoing Call**
 To increase or decrease the volume, select the "Ringtone", "Incoming Call" or "Outgoing Call" key and adjust it with the INFINITI controller.
- **Automatic Hold**
 When this function is activated, an incoming phone call is automatically held.
- **Vehicle Ringtone**
 When this function is activated, a specific ringtone that is different from the cellular phone will sound when receiving a call.

Auto Downloaded

When this item is activated and supported by a compatible phone, the phonebook of the hands-free phone is automatically downloaded at the same time that the hands-free phone is connected.

When this item is active, the system will automatically re-download the entries registered in the connected phone even after you delete the entries from your vehicle's Handset Memory.

TROUBLESHOOTING GUIDE

The system should respond correctly to all voice commands without difficulty. If problems are encountered, try the following solutions. Where the solutions are listed by number, try each solution in turn, starting with number 1, until the problem is resolved.

Symptom	Solution
The system fails to interpret the command correctly.	1. Ensure that the command is valid. (See “INFINITI Voice Recognition system” (P.4-114).)
	2. Ensure that the command is spoken after the tone.
	3. Speak clearly without pausing between words and at a level appropriate to the ambient noise level in the vehicle.
	4. Ensure that the ambient noise level is not excessive (for example, windows open or defroster on). NOTE: If it is too noisy to use the phone, it is likely that the voice commands will not be recognized.
	5. If more than one command was said at a time, try saying the commands separately.
The system consistently selects the wrong voicetag.	1. Ensure that the voicetag requested matches what was originally stored. (See “Quick Dial” (P.4-107).)
	2. Replace one of the names being confused with a new name.

INFINITI Voice Recognition allows hands-free operation of the Phone, Navigation, Information and Audio systems in one of two modes, Standard Mode or Alternate Command Mode.

In Standard Mode, commands that are available are always shown on the display and announced by the system. You can complete your desired operation by simply following the prompts given by the system. (See “INFINITI Voice Recognition Standard Mode” (P.4-114) for details.)

For advanced operation, you can use the Alternate Command Mode. (See “INFINITI Voice Recognition Alternate Command Mode” (P.4-130) for details.) When this mode is active, an expanded list of commands can be spoken after pushing the TALK switch, and the voice command menu prompts are turned off. Review the expanded command list, which is available when this mode is active. Note that in this mode the recognition success rate may be affected as the number of available commands and the ways of speaking each command are increased.

To switch one mode to another, see each mode description later in this section.

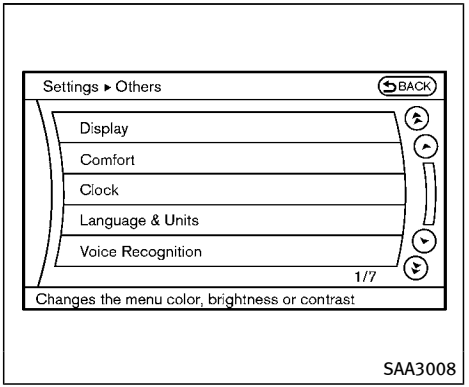
To improve the recognition success rate when Alternate Command Mode is active, try using the Speaker Adaptation Function available in that mode. Otherwise, it is recommended that Alternate Command Mode be turned off and Standard Mode be used for the best recognition performance.

For the voice commands for the navigation system, refer to the Navigation System Owner’s Manual of your vehicle.

INFINITI VOICE RECOGNITION STANDARD MODE

The following section is applicable when the Standard Mode is activated.

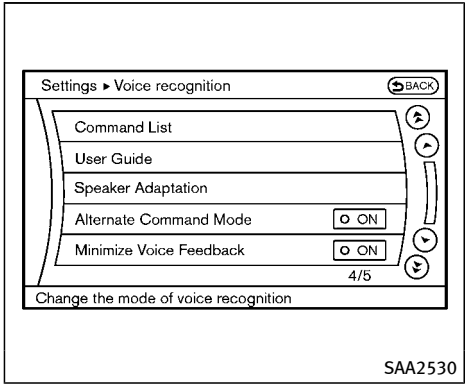
The Standard Mode enables you to complete the desired operation by simply following the prompts that appear on the display and also are announced by the system.



Activating Standard Mode

When the Alternate Command Mode is active, perform the following steps to switch to the Standard Mode.

1. Push the SETTING button on the instrument panel.
2. Select the “Others” key.
3. Select the “Voice Recognition” key.

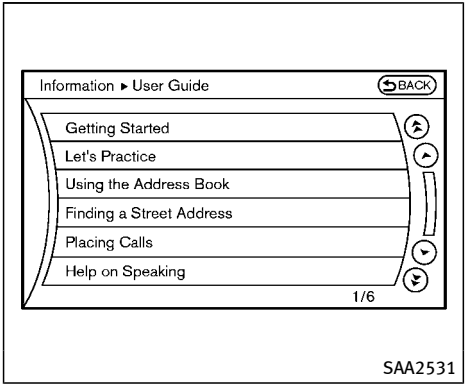


4. Select the “Alternate Command Mode” key.
5. The indicator turns off and the Standard Mode activates.

Displaying user guide

If you use the INFINITI Voice Recognition system for the first time or you do not know how to operate it, you can display the User Guide for confirmation.

You can confirm how to use voice commands by accessing a simplified User Guide, which contains basic instructions and tutorials for several voice commands.



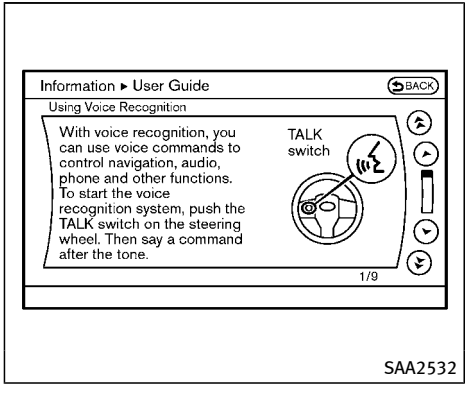
1. Push the INFO button on the instrument panel.
2. Select the “Others” key.
3. Select the “Voice Recognition” key.
4. Select the “User Guide” key.
5. Select a preferred item.

You can skip steps 1 and 3 above if you say “Help”.

Available items:

- Getting Started
 Describes the basics of how to operate the INFINITI Voice Recognition system.
- Let’s Practice
 Mode that allows practicing by following the instructions of the system voice.
- Using the Address Book
 Tutorial for entering a destination by using the Address Book.
- Finding a Street Address (if so equipped)
 Tutorial for entering a destination by street address.
- Placing Calls
 Tutorial for making a phone call by voice command operation.
- Help on Speaking
 Displays useful tips of speaking for correct command recognition by the system.

Note that the Command List feature is only available when Alternate Command Mode is active.



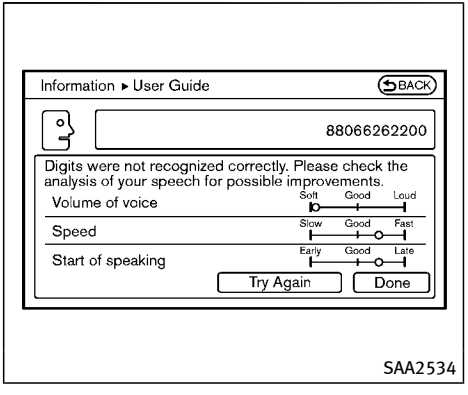
Getting Started

Before using the INFINITI Voice Recognition system for the first time, you can confirm how to use commands by viewing the Getting Started section of the User Guide.

1. Select the “Getting Started” key.
2. You can confirm the page by scrolling the screen using the INFINITI controller.

Tutorials on the operation of the INFINITI Voice Recognition system

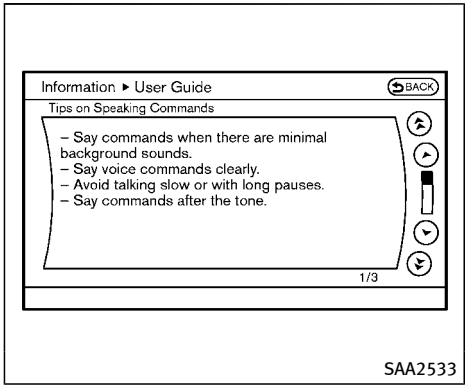
If you choose “Using the Address Book”, “Finding a Street Address” or “Placing Calls”, you can view tutorials on how to perform these operations using INFINITI Voice Recognition.



Let’s Practice

This mode helps learn how to use the INFINITI Voice Recognition system.

1. Select the “Let’s Practice” key.
2. After the message screen appears, push the TALK switch on the steering wheel.
3. Speak the displayed number after the tone. The evaluation screen will be displayed and the result can be confirmed.



Useful tips for correct operation

You can display useful speaking tips to help the system recognize your voice commands correctly.

Select “Help on Speaking” to start display.

USING THE SYSTEM

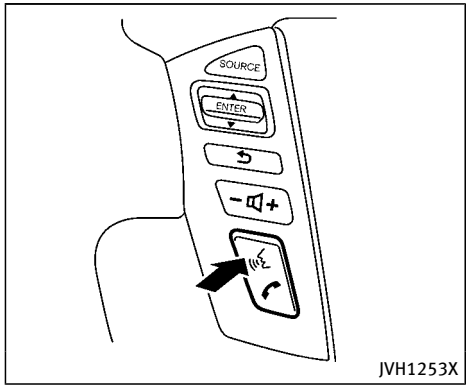
Initialization

When the ignition switch is pushed to the ON position, INFINITI Voice Recognition is initialized, which may take up to one minute. When completed, the system is ready to accept voice commands. If the TALK switch is pushed before the initialization completes, the display will show the message: “System not ready.” or a beep sounds.

Before starting

To get the best recognition performance from INFINITI Voice Recognition, observe the following:

- The interior of the vehicle should be as quiet as possible. Close the windows to eliminate the surrounding noises (traffic noise and vibration sounds, etc.), which may prevent the system from correctly recognizing the voice commands.
- Wait until the tone sounds before speaking a command.
- Speak in a natural conversational voice without pausing between words.
- If the air conditioner is set to “Auto”, the fan speed is automatically lowered so that your commands can be recognized more easily.



Giving voice commands

1. Push the TALK switch located on the steering wheel.
2. A list of commands appears on the screen, and you will hear a prompt.
3. After the tone sounds and the icon on the screen changes from to , speak a command.

 Selecting the “Practice” key will start the practice mode. See “Let’s Practice” (P.4-116).
4. Continue to follow the voice menu prompts and speak after the tone sounds until your desired operation is completed.

 Selecting the “Help” key can display the detailed information of the each command.

Operating tips:

- Say a command after the tone.
- Commands that are available are always shown on the display and spoken through voice menu prompts. Commands other than those that are displayed are not accepted. Please follow the prompts given by the system.
- If the command is not recognized, the system announces, “Please say again”. Repeat the command in a clear voice.
- Push the BACK button once to return to the previous screen.
- To exit the voice recognition system, push and hold the TALK switch. The message, “Voice canceled” will be announced.

Voice Prompt Interrupt:

To skip the voice guidance function and give the command immediately, push the TALK switch to interrupt the system. Remember to speak after the tone.

How to speak numbers:

INFINITI Voice Recognition requires a certain way to speak numbers when giving voice commands. Refer to the following examples.

General rule

Only single digits 0 (zero) to 9 can be used. (For example, if you would like to say 500, “five zero zero” can be used, but “five hundred” cannot.)

Examples

- 1-800-662-6200
 - — “One eight zero zero six six two six two zero zero”

Improving Recognition of Phone numbers

You can improve the recognition of phone numbers by saying the phone number in three groups of numbers. For example, when you try to call 800-662-6200, say “eight zero zero” first, and the system will then ask you for the next three digits. Then, say “six six two”. After recognition, the system will then ask for the last four digits. Say, “six two zero zero”. Using this method of phone digit entry can improve recognition performance.

When speaking a house number, speak the number “0” as “zero”. If the letter “o (Oh)”

is included in the house number, it will not be recognized as the number “0 (zero)” even if you speak “oh” instead of “zero”. **Please speak “zero” for the number “0 (zero)”, “oh” for the letter “o (oh)”.**

Send digits using dial tone:

- Press the TALK switch during a phone call.
- The menu will be launched and you will be provided with the following guidance: "Please say the digits to dial".
- After guidance, say the digits of the number you want to send. After this, the digits that have been recognized will be read out.
- If you press the ENTER button on the steering wheel or on the INFINITI controller, the selected digits will be sent.

Command list

Category Command:

Command	Action
Call (Optional)	Makes a call to a contact that is stored in either phonebook. Please say "Call" followed by a stored name.
Phone	Operates the Phone function
Navigation	Operates the Navigation function
Information	Displays the vehicle Information function
Audio	Operates the Audio function.
Help	Displays User Guide

Phone Command:

Command		Action
Dial Number		Makes a call to a spoken phone number up to 10 digits.
Quick Dial		Makes a call to a contact that is stored in the Quick Dial.
Phonebook		Makes a call to a contact that is stored in the mobile phone.
Call history	Incoming Calls	Makes a call to the incoming call number.
	Outgoing Calls	Makes a call to the dialed number.
	Missed Calls	Makes a call to the Missed calls number.
International Call		Makes an international call by allowing more than 10 digits to be spoken.
Change Number		Corrects the recognized phone number (available during phone number entry).

Navigation Command:

Command	Action
Destination Home	Sets a route to your home that is stored in the Address Book.
Address	Searches for a location by the street address specified, and sets a route to the location.
Places	Sets a route to a facility near the current vehicle location.
Address Book	Searches for stored information in the Address Book.
Previous Destinations	Sets a route to a previous destination.

Information Command:

Command	Action
Fuel Economy	Displays fuel economy information.
Maintenance	Displays maintenance information.
Traffic Information	Turns the traffic information system ON and OFF.
Where am I?	Displays your current location.
Tire Pressure	Displays tire pressure information

Audio Command:

Command	Action
AM	Turns to the AM band, selecting the station last played.
FM	Turns to the FM band, selecting the station last played.
XM	Turns to the SiriusXM Satellite Radio band, selecting the channel last played.
CD	Starts to play a CD.

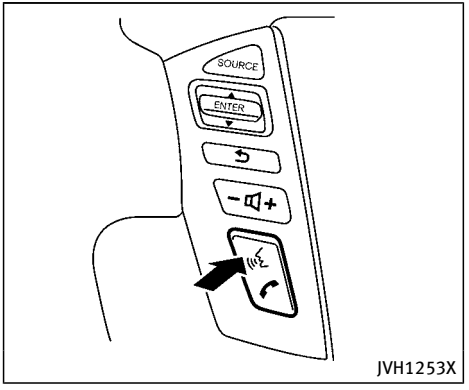
General Commands:

Command	Action
Go back	Corrects the last recognition result to return to the previous screen
Exit	Cancels Voice Recognition

Voice command examples

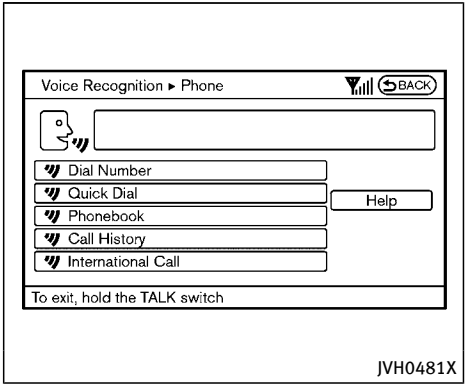
To use the INFINITI Voice Recognition function, speaking one command is sometimes sufficient, but at other times it is necessary to speak two or more commands. As examples, some additional basic operations by voice commands are described here.

For navigation system commands, see the separate Navigation System Owner's Manual.

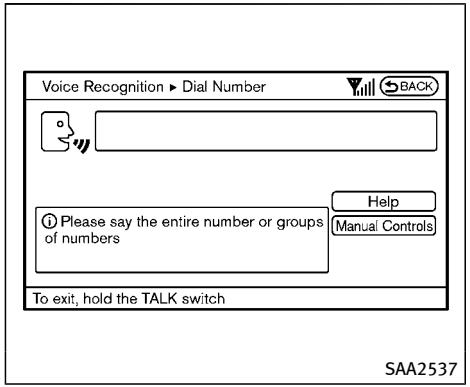


Example 1 - Placing a call to the phone number 800-662-6200:

1. Push the TALK switch located on the steering wheel. You will hear a prompt.
2. Speak "Phone".

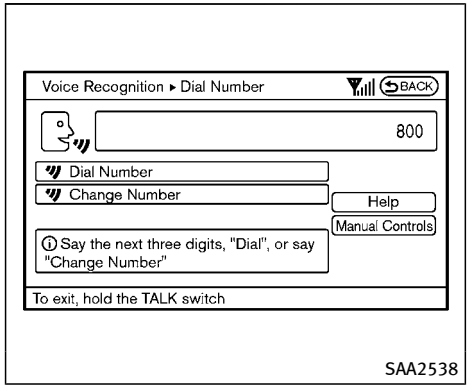


3. Speak "Dial Number".

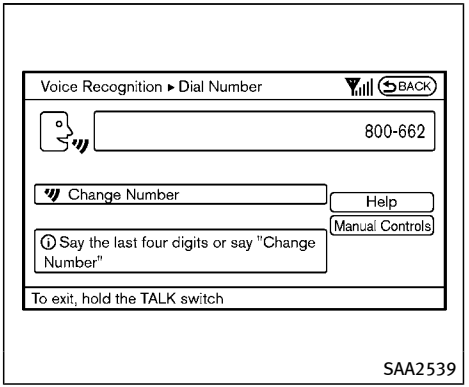


4. Speak “8 0 0”.

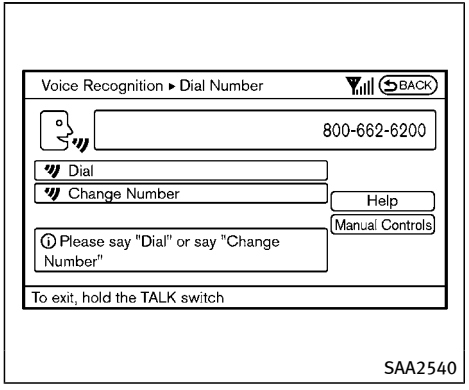
 Selecting the “Manual Controls” key switches the screen to the keypad to input the phone number manually.



5. The system announces, “Please say the next three digits or dial, or say change number.”
6. Speak “6 6 2”.



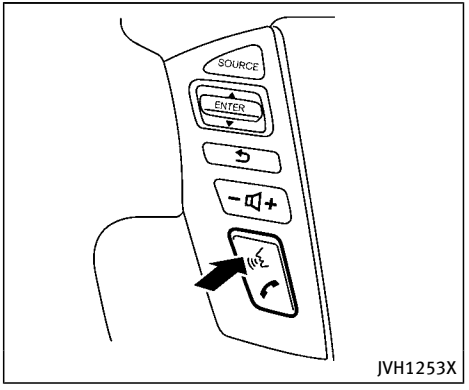
7. The system announces, “Please say the last four digits” or say change number.
8. Speak “6 2 0 0”.



9. The system announces, “Dial or Change Number?”
10. Speak “Dial”.
11. The system makes a call to 800-662-6200.

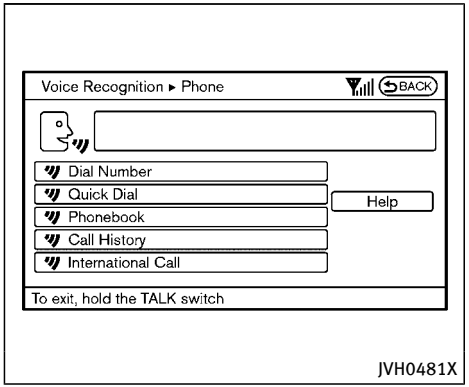
Note:

- You can also speak “800-662-6200” (10 continuous digits) or “662-6200” (7 continuous digits), if the area code is not necessary. However, the 3-3-4 digit grouping is recommended for improved recognition. (See “How to speak numbers” (P.4-118).)
- You can only say a phone number using the 3-3-4 grouping, 7 digits, and 10 digits using this command. Please use the “International Call” command for all other formats.
- If you say “Change Number” during phone number entry, the system will automatically request that you repeat the number using the 3-3-4 format. In this case please say the area code first and then follow the prompts.
- Do not add a “1” in front of the area code when speaking phone numbers.
- If the system does not recognize your command, please try repeating the command using a natural voice. Speaking too slow or too loudly may further decrease recognition performance.

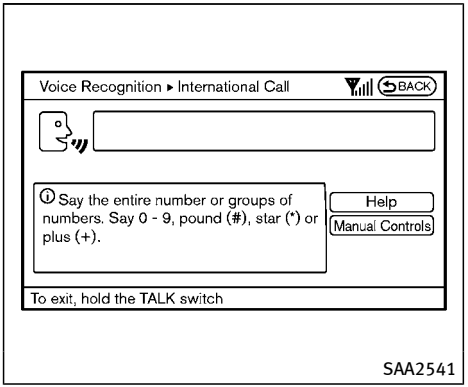


Example 2 - Placing an international call to the phone number 011-81-111-222-3333:

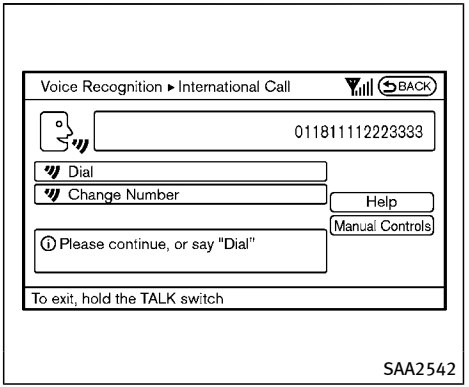
1. Push the TALK switch located on the steering wheel. You will hear a prompt.
2. Speak “Phone”.



3. Speak “International Call”.



4. Speak “011811112223333”.



5. Speak “Dial”.
6. System makes a call to 011-81-111-222-3333.

Note:

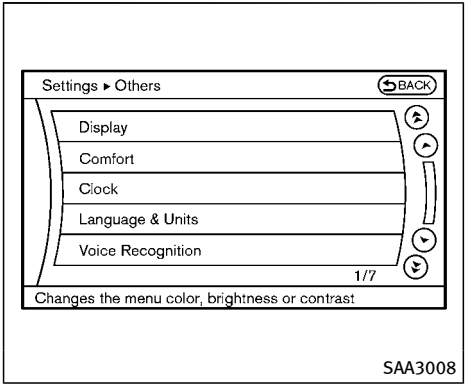
Any digit input format is available in the International Number input process.

INFINITI VOICE RECOGNITION ALTERNATE COMMAND MODE

The following section is applicable when Alternate Command Mode is activated.

When Alternate Command Mode is activated, an expanded list of commands can be used after pushing the TALK switch. In this mode, available commands are not fully shown on the display or prompted. Review the expanded command list when this mode is active. See examples of Alternate Command Mode screens.

Please note that in this mode the recognition success rate may be affected as the number of available commands and ways of speaking each command are increased. To improve the recognition success rate, try using the Speaker Adaptation Function available in that mode. (See “Speaker adaptation function (for Alternate Command Mode)” (P.4-140).) Otherwise it is recommended that Alternate Command Mode be turned OFF and Standard Mode be used for the best recognition performance.

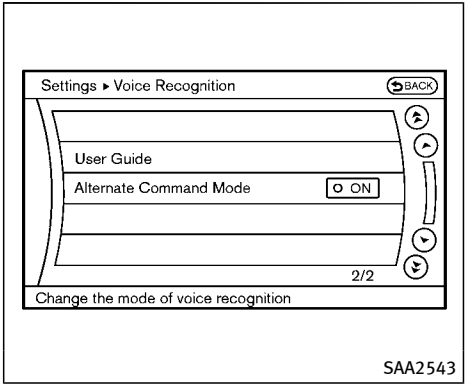


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Activating Alternate Command Mode

When the Standard Mode is active, perform the following steps to switch to the Alternate Command Mode.

1. Push the SETTING button on the instrument panel.
2. Highlight the “Others” key.
3. Highlight the “Voice Recognition” key.

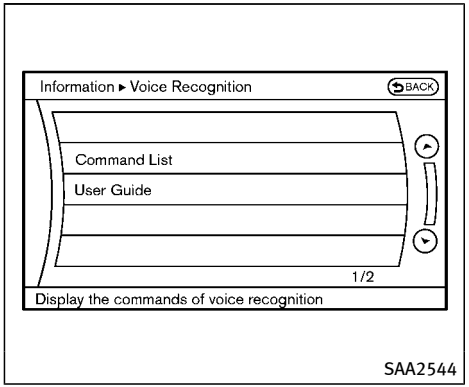


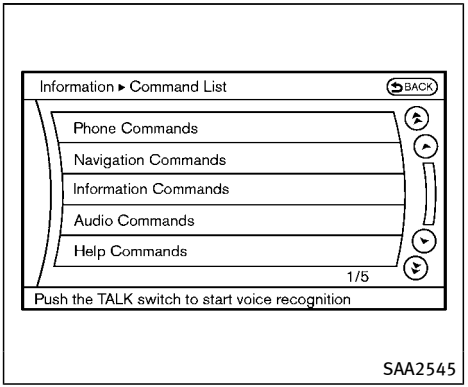
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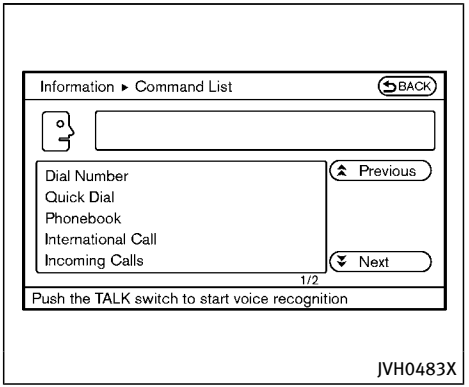
4. Highlight the “Alternate Command Mode” key.
5. The confirmation message is displayed on the screen. Push the “OK” key to activate the Alternate Command Mode.

Displaying command list

If you are controlling the system by voice commands for the first time or do not know the appropriate voice command, perform the following procedure for displaying the voice command list (available only in Alternate Command Mode).







1. Push the INFO button on the instrument panel.
2. Select the “Others” key.
3. Select the “Voice Recognition” key.
4. Select the “Command List” key.
5. Select a category from the list.
6. Select an item.
7. If necessary, scroll the screen using the INFINITI controller to view the entire list.
8. Push the BACK button to return to the previous screen.

Command list

Phone Commands:

Command		Action
Dial Number		Makes a call to a spoken phone number.
Quick Dial		Makes a call to a contact that is stored in the Quick Dial.
Phonebook		Makes a call to a contact that is stored in the mobile phone.
Call history	Incoming Calls	Makes a call to the incoming call number.
	Outgoing Calls	Makes a call to the dialed number.
	Missed Calls	Makes a call to the Missed calls number.
International Call		Makes an international call by allowing more than 10 digits to be spoken.
Call ‹name›		Makes a call to a contact that is stored in either Quick Dial or Phonebook. Please say “Call” followed by a stored name.
Change Number		Corrects the recognized phone number (available during phone number entry).

Navigation Commands:

Command	Action
Destination Home	Sets a route to your home that is stored in the Address Book.
Address	Searches for a location by the street address specified, and sets a route to the location.
Places	Sets a route to a facility near the current vehicle location.
Address Book	Searches for stored information in the Address Book.
Previous Destinations	Sets a route to a previous destination.
Previous Start Point	Sets a route to a previous starting point.
Delete Destination	Deletes a destination.

Information Commands:

Command	Action
Fuel Economy	Displays fuel economy information.
Maintenance	Displays maintenance information.
Tire Pressure	Displays tire pressure information
Where am I?	Displays your current location.
Traffic Information	Turns the traffic information system ON and OFF.
Weather Information	Displays weather information.
Weather Map	Displays a weather map.

Audio Commands:

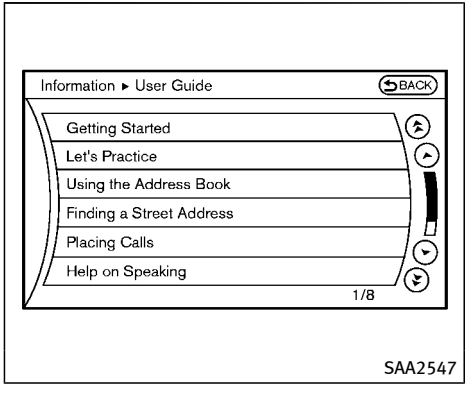
Command	Action
CD	Starts to play a CD.
FM	Turns to the FM band, selecting the station last played.
AM	Turns to the AM band, selecting the station last played.
XM	Turns to the SiriusXM Satellite Radio band, selecting the station last played.
USB	Turns on the USB memory.
Bluetooth Audio	Turns on the Bluetooth® audio player.
AUX	Turns on the AUX.

Help Commands:

Command		Action
Command List	Navigation Commands	Displays the navigation command list.
	Phone Commands	Displays the phone command list.
	Audio Commands	Displays the audio command list.
	Information Commands	Displays the information command list.
	Help Commands	Displays the help command list.
User Guide		Displays the User Guide.
Speaker Adaptation		The system can memorize the voices of up to three persons.

General Commands:

Command	Action
Go back	Corrects the last recognition result to return to the previous screen
Exit	Cancels Voice Recognition



Displaying user guide

You can confirm how to use voice commands by accessing a simplified User Guide, which contains basic instructions and tutorials for several voice commands.

1. Push the INFO button on the instrument panel.
2. Select the “Others” key using the INFINITI controller and push the ENTER button.
3. Highlight the “Voice Recognition” key using the INFINITI controller and push the ENTER button.
4. Highlight the “User Guide” key using the INFINITI controller and push the ENTER button.
5. Highlight an item using the INFINITI controller and push the ENTER button.

Available items:

- Getting Started
 Describe the basics of how to operate the INFINITI Voice Recognition system.
- Let’s Practice
 Mode that allows practicing by following the instructions of the system voice.
- Using the Address Book
 Refer to Navigation System Owner’s Manual.
- Finding a Street Address (if so equipped)
 Refer to Navigation System Owner’s Manual.
- Placing Calls
 Tutorial for making a phone call by voice command operation.
- Help on Speaking
 Displays useful tips for how to correctly speak commands in order for them to be properly recognized by the system.
- Voice Recognition Settings
 Describes the available voice recognition settings.
- Adapting the System to Your Voice
 Tutorial adapting the system to your voice.

USING THE SYSTEM

Initialization

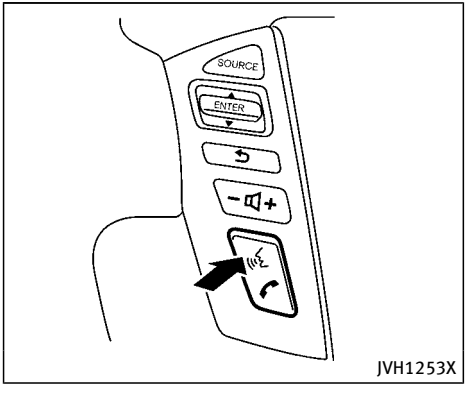
When the ignition switch is pushed to the ON position, INFINITI Voice Recognition is initialized, which may take up to one minute. When completed, the system is ready to accept voice commands. If the TALK switch is pushed before the initialization completes the display will show the message: “System not ready.” or a beep sounds.

Before starting

To get the best performance from INFINITI Voice Recognition, observe the following.

- Keep the interior of the vehicle as quiet as possible. Close the windows to eliminate the surrounding noises (traffic noises, vibration sounds, etc.), which may prevent the system from recognizing the voice commands correctly.

- When the air conditioner is in the “AUTO” mode, the fan speed decreases automatically for easy recognition.
- Wait until a tone sounds before speaking a command.
- Speak in a natural voice without pausing between words.



Giving voice command

1. Push and release the TALK switch located on the steering wheel.
2. After the tone sounds and the icon on the screen changes from to , speak a command.

Operating tips:

- Voice commands cannot be accepted when the icon is .
- The list displayed can be scrolled by tilting the menu control switch on the steering wheel.
- If the command is not recognized, the system announces, “Please say again”. Repeat the command in a clear voice.
- Push the BACK button once to return to the previous screen.
- If you want to cancel the command, push and hold the TALK switch for 1 second. The message “Voice canceled” will be announced.

Voice Prompt Interrupt:

To skip the voice guidance function and give the command immediately, push the TALK switch to interrupt the system. Remember to speak after the tone.

How to speak numbers:

INFINITI Voice Recognition requires a certain way to speak numbers when giving voice commands. Refer to the following examples.

General rule

Only single digits 0 (zero) to 9 can be used. (For example, if you would like to say 500, “five zero zero” can be used, but “five hundred” cannot.

Phone numbers

Speak phone numbers according to the following examples:

- 1-800-662-6200

— “Dial one eight zero zero six six two six two zero zero.”

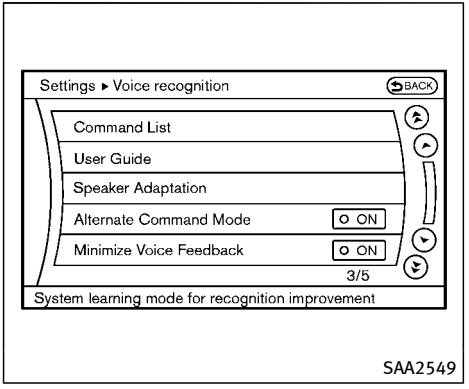
Note 1: For the best voice recognition phone dialing results, say phone numbers as single digits.

Note 2: You cannot say 555-6000 as “five five five six thousands”.

Note 3: When speaking a house number, speak the number “0” as “zero”. If the letter “o (Oh)” is included in the house number, it will not be recognized as the number “0 (zero)” even if you speak “oh” instead of “zero”. Please speak “zero” for the number “0 (zero)”, “oh” for the letter “o (oh)”.

Send digits using dial tone:

- Press the TALK switch during a phone call.
- The menu will be launched and you will be provided with the following guidance: "Please say the digits to dial".
- After guidance, say the digits of the number you want to send. After this, the digits that have been recognized will be read out.
- If you press the ENTER button on the steering wheel or on the INFINITI controller, the selected digits will be sent.



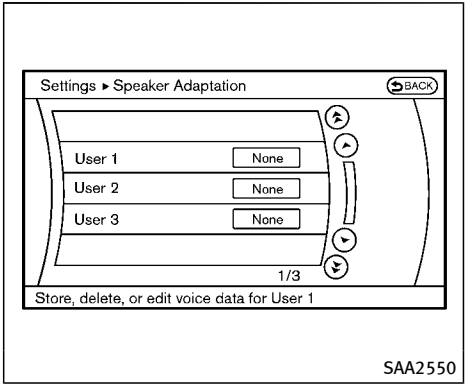
SAA2549

Speaker adaptation function (for Alternate Command Mode)

The voice recognition system has a function to learn the user’s voice for better voice recognition performance. The system can memorize the voices of up to three persons.

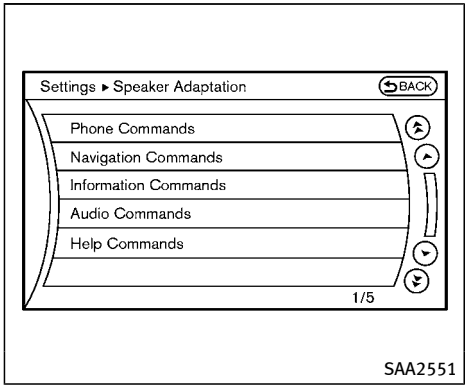
Having the system learn the user’s voice:

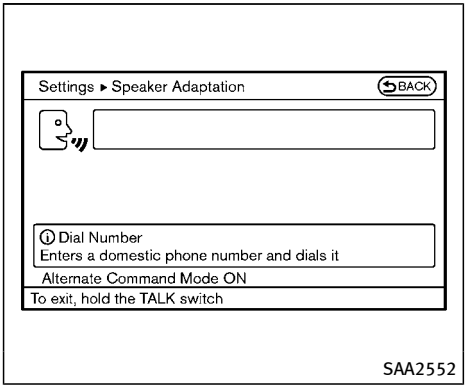
1. Push the SETTING button on the instrument panel and select the “Others” key.
2. Select the “Voice Recognition” key.
3. Select the “Speaker Adaptation” key.



SAA2550

4. Select the user whose voice is memorized by the system.
5. Select the “Start Speaker Adaptation Learning” key.





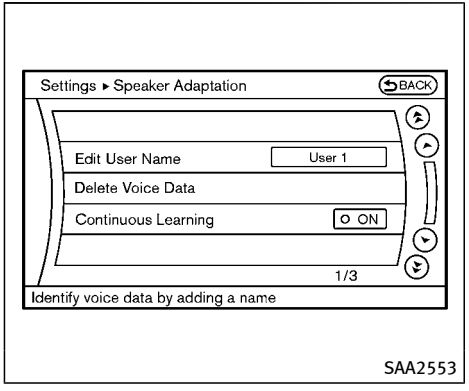
6. Select a category to be learned by the system from the following list.
 - Phone Commands
 - Navigation Commands
 - Information Commands
 - Audio Commands
 - Help Commands

 The voice commands in the category are displayed.
7. Select a voice command and then push the ENTER button.

 The voice recognition system starts.
8. The system requests that you repeat a command after a tone.
9. After the tone sounds and the icon on the screen changes from to , speak the command that the system requested.
10. When the system has recognized the voice command, the voice of the user is learned.

Push the switch or BACK button to return to the previous screen.

If the system has learned the command correctly, the voice command status on the right side of the command turns from “None” to “Stored”.



Speaker Adaptation function settings:

Edit User Name

Edit the user name using the keypad displayed on the screen.

Delete Voice Data

Resets the user's voice that the voice recognition system has learned.

Continuous Learning

When this item is turned to ON, you can have the system learn the voice commands in succession, without selecting commands one by one.

Minimize voice feedback (for Alternate Command Mode)

To minimize the voice feedback from the system, perform the following steps.

1. Push the SETTING button on the instrument panel.
2. Select the "Others" key.
3. Select the "Voice Recognition" key.
4. Select the "Minimize Voice Feedback" key.
5. The setting is turned to ON and the voice guidance will now be reduced when using the Voice Recognition system.

TROUBLESHOOTING GUIDE

The system should respond correctly to all voice commands without difficulty. If problems are encountered, follow the solutions given in this guide for the appropriate error.

Where the solutions are listed by number, try each solution in turn, starting with number one, until the problem is resolved.

Symptom/error message	Solution
The system fails to interpret the command correctly.	1. Ensure that the command format is valid, see “Command list” (P.4-120).
	2. Speak clearly without pausing between words and at a level appropriate to the ambient noise level.
	3. Ensure that the ambient noise level is not excessive, for example, windows open or defrost on. **NOTE:** **If it is too noisy to use the phone, it is likely that voice commands will not be recognized.**
	4. If optional words of the command have been omitted, then the command should be tried with these in place.
The system consistently selects the wrong voicetag in the phonebook.	1. Ensure that the voicetag requested matches what was originally stored. (See “Bluetooth® Hands-Free Phone System” (P.4-104).)
	2. Replace one of the voicetags being confused with a different voicetag.

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WARNING

- **Do not leave children or adults who would normally require the support of others alone in your vehicle. Pets should not be left alone either. They could accidentally injure themselves or others through inadvertent operation of the vehicle. Also, on hot, sunny days, temperatures in a closed vehicle could quickly become high enough to cause severe or possibly fatal injuries to people or animals.**
- **Properly secure all cargo to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.**

EXHAUST GAS (carbon monoxide)

WARNING

- **Do not breathe exhaust gases; they contain colorless and odorless carbon monoxide. Carbon monoxide is dangerous. It can cause unconsciousness or death.**
- **If you suspect that exhaust fumes are entering the vehicle, drive with all windows fully open, and have the vehicle inspected immediately.**
- **Do not run the engine in closed spaces such as a garage.**
- **Do not park the vehicle with the engine running for any extended length of time.**
- **Keep the liftgate closed while driving, otherwise exhaust gases could be drawn into the passenger compartment. If you must drive with the liftgate open, follow these precautions:**
 1) **Open all the windows.**
 2) **Set the air recirculation to off and the fan control to high to circulate the air.**
- **If electrical wiring or other cable connections must pass to a trailer through the seal on the liftgate or the body, follow the manufacturer's recommendation to prevent carbon monoxide entry into the vehicle.**
- **The exhaust system and body should be inspected by a qualified mechanic whenever:**
 - **The vehicle is raised for service.**
 - **You suspect that exhaust fumes are entering into the passenger compartment.**
 - **You notice a change in the sound of the exhaust system.**
 - **You have had an accident involving damage to the exhaust system, underbody, or rear of the vehicle.**

THREE-WAY CATALYST

The three-way catalyst is an emission control device installed in the exhaust system. Exhaust gases in the three-way catalyst are burned at high temperatures to help reduce pollutants.

WARNING

- **The exhaust gas and the exhaust system are very hot. Keep people, animals or flammable materials away from the exhaust system components.**
- **Do not stop or park the vehicle over flammable materials such as dry grass, waste paper or rags. They may ignite and**

cause a fire.

CAUTION

- **Do not use leaded gasoline. Deposits from leaded gasoline seriously reduce the three-way catalyst's ability to help reduce exhaust pollutants.**
- **Keep your engine tuned up. Malfunctions in the ignition, fuel injection, or electrical systems can cause overrich fuel flow into the three-way catalyst, causing it to overheat. Do not keep driving if the engine misfires, or if noticeable loss of performance or other unusual operating conditions are detected. Have the vehicle inspected promptly. It is recommended you visit an INFINITI retailer for this service.**
- **Avoid driving with an extremely low fuel level. Running out of fuel could cause the engine to misfire, damaging the three-way catalyst.**
- **Do not race the engine while warming it up.**
- **Do not push or tow your vehicle to start the engine.**

TIRE PRESSURE MONITORING SYSTEM (TPMS)

Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label. (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, you should determine the proper tire inflation pressure for those tires.)

As an added safety feature, your vehicle has been equipped with a Tire Pressure Monitoring System (TPMS) that illuminates a low tire pressure telltale when one or more of your tires is significantly underinflated. Accordingly, when the low tire pressure telltale illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly underinflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale.

Your vehicle has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly. The TPMS malfunction indicator is combined with the low tire pressure telltale. When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists. When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended. TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS from functioning properly. Always check the TPMS malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the

replacement or alternate tires and wheels allow the TPMS to continue to function properly.

Additional information

- Since the spare tire is not equipped with the TPMS, the TPMS does not monitor the tire pressure of the spare tire.
- The TPMS will activate only when the vehicle is driven at speeds above 16 MPH (25 km/h). Also, this system may not detect a sudden drop in tire pressure (for example, a flat tire while driving).
- The low tire pressure warning light does not automatically turn off when the tire pressure is adjusted. After the tire is inflated to the recommended pressure, the vehicle must be driven at speeds above 16 MPH (25 km/h) to activate the TPMS and turn off the low tire pressure warning light. Use a tire pressure gauge to check the tire pressure.
- The CHECK TIRE PRESSURE warning appears in the vehicle information display when the low tire pressure warning light is illuminated and low tire pressure is detected. The CHECK TIRE PRESSURE warning turns off when the low tire pressure warning light turns off.

 The CHECK TIRE PRESSURE warning appears each time the ignition switch is placed in the ON position as long as the low tire pressure warning light remains illuminated.

 The CHECK TIRE PRESSURE warning does not appear if the low tire pressure warning light illuminates to indicate a TPMS malfunction.
- Tire pressure rises and falls depending on the heat caused by the vehicle's operation and the outside temperature. Do not reduce the tire pressure after driving because the tire pressure rises after driving. Low outside temperature can lower the temperature of the air inside the tire which can cause a lower tire inflation pressure. This may cause the low tire pressure warning light to illuminate. If the warning light illuminates in low ambient temperature, check the tire pressure for all four tires.
- You can also check the pressure of all tires (except the spare tire) on the display screen. The order of the tire pressure figures displayed on the screen does not correspond with the actual order of the tire position. See "TIRE PRESSURE information" (P.4-9).

For additional information, see "Low tire pressure warning light" (P.2-16) and "Tire Pressure Monitoring System (TPMS) " (P.6-3).

WARNING

- **If the low tire pressure warning light illuminates or LOW PRESSURE information is displayed on the monitor screen while driving, avoid sudden steering maneuvers or abrupt braking, reduce vehicle speed, pull off the road to a safe location and stop the vehicle as soon as possible. Driving with under-inflated tires may permanently damage the tires and increase the likelihood of tire failure. Serious vehicle damage could occur and may lead to an accident and could result in serious personal injury. Check the tire pressure for all four tires. Adjust the tire pressure to the recommended COLD tire pressure shown on the Tire and Loading Information label to turn the low tire pressure warning light OFF. If the light still illuminates while driving after**

adjusting the tire pressure, a tire may be flat or the TPMS may be malfunctioning. If you have a flat tire, replace it with a spare tire as soon as possible. If no tire is flat and all tires are properly inflated, it is recommended you consult an INFINITI retailer.

- **Since the spare tire is not equipped with the TPMS, when a spare tire is mounted or a wheel is replaced, the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute. The light will remain on after 1 minute. Have your tires replaced and/or TPMS system reset as soon as possible. It is recommended you visit an INFINITI retailer for these services.**
- **Replacing tires with those not originally specified by INFINITI could affect the proper operation of the TPMS.**
- **Do not inject any tire liquid or aerosol tire sealant into the tires, as this may cause a malfunction of the tire pressure sensors.**

CAUTION

- **The TPMS may not function properly when the wheels are equipped with tire chains or the wheels are buried in snow.**
- **Do not place metalized film or any metal parts (antenna, etc.) on the windows. This may cause poor reception of the signals from the tire pressure sensors, and the TPMS will not function properly.**

Some devices and transmitters may temporarily interfere with the operation of the TPMS and cause the low tire pressure warning light to illuminate. Some examples are:

- Facilities or electric devices using similar radio frequencies are near the vehicle.
- If a transmitter set to similar frequencies is being used in or near the vehicle.
- If a computer (or similar equipment) or a DC/AC converter is being used in or near the vehicle.

Low tire pressure warning light may illuminate in the following cases.

- If the vehicle is equipped with a wheel and tire without TPMS.
- If the TPMS has been replaced and the ID has not been registered.
- If the wheel is not originally specified by INFINITI.

FCC Notice:

For USA:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For Canada:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

TPMS with Tire Inflation Indicator

When adding air to an under-inflated tire, the TPMS with Tire Inflation Indicator provides visual and audible signals outside the vehicle to help you inflate the tires to the recommended COLD tire pressure.

Vehicle set-up:

1. Park the vehicle in a safe and level place.
2. Apply the parking brake and place the shift lever in the P (Park) position.
3. Place the ignition switch in the ON position. Do not start the engine.

Operation:

1. Add air to the tire.
2. After a few seconds, the hazard indicators will start flashing.
3. When the designated pressure is reached, the horn beeps once and the hazard indicators stop flashing.
4. Perform the above steps for each tire.

- If the tire is over-inflated more than approximately 4 psi (30 kPa), the horn beeps and the hazard indicators flash 3 times. To correct the pressure, push the core of the valve stem on the tire briefly to release pressure. When the pressure reaches the designated pressure, the horn beeps once.
- If the hazard indicator does not flash within approximately 15 seconds after starting to inflate the tire, it indicates that the Tire Inflation Indicator is not operating.
- The TPMS will not activate the Tire Inflation Indicator under the following conditions:
 - — If there is interference from an external device or transmitter
 - — The air pressure from the inflation device such as those using a power socket is not sufficient to inflate the tire
 - — If an electrical equipment is being used in or near the vehicle
 - — There is a malfunction in the TPMS system
 - — There is a malfunction in the horn or hazard indicators
- If the Tire Inflation Indicator does not operate due to TPMS interference, move the vehicle about 3 ft (1m) backward or forward and try again.

If the Tire Inflation Indicator is not working, use a tire pressure gauge.

AVOIDING COLLISION AND ROLLOVER

WARNING

Failure to operate this vehicle in a safe and prudent manner may result in loss of control or an accident.

Be alert and drive defensively at all times. Obey all traffic regulations. Avoid excessive speed, high speed cornering, or sudden steering maneuvers, because these driving practices could cause you to lose control of your vehicle. **As with any vehicle, a loss of control could result in a collision with other vehicles or objects, or cause the vehicle to rollover, particularly if the loss of control causes the vehicle to slide sideways.** Be attentive at all times, and avoid driving when tired. Never drive when under the influence of alcohol or drugs (including prescription or over-the-counter drugs which may cause drowsiness). Always wear your seat belt as outlined in the “Seat belts” (P.1-19), and also instruct your passengers to do so.

Seat belts help reduce the risk of injury in

collisions and rollovers. **In a rollover crash, an unbelted or improperly belted person is significantly more likely to be injured or killed than a person properly wearing a seat belt.**

ON-PAVEMENT AND OFF-ROAD DRIVING PRECAUTIONS

Utility vehicles have a significantly higher rollover rate than other types of vehicles.

They have higher ground clearance than passenger cars to make them capable of performing in a variety of on-pavement and off-road applications. This gives them a higher center of gravity than ordinary cars. An advantage of higher ground clearance is a better view of the road, allowing you to anticipate problems. However, they are not designed for cornering at the same speeds as conventional passenger cars any more than low-slung sports cars are designed to perform satisfactorily under off-road conditions. If at all possible, avoid sharp turns or abrupt maneuvers, particularly at high speeds. As with other vehicles of this type, failure to operate this vehicle correctly may result in loss of control or vehicle rollover. Seat belts help reduce the risk of injury in collisions and rollovers. In a rollover crash, an unbelted or improperly belted person is significantly more likely to be injured or killed than a person properly wearing a seat belt.

Be sure to read “Driving safety precautions” (P.5-10).

OFF-ROAD RECOVERY

While driving, the right side or left side wheels may unintentionally leave the road surface. If this occurs, maintain control of the vehicle by following the procedure below. Please note that this procedure is only a general guide. The vehicle must be driven as appropriate based on the conditions of the vehicle, road and traffic.

1. Remain calm and do not overreact.
2. Do not apply the brakes.
3. Maintain a firm grip on the steering wheel with both hands and try to hold a straight course.
4. When appropriate, slowly release the accelerator pedal to gradually slow the vehicle.
5. If there is nothing in the way, steer the vehicle to follow the road while the vehicle speed is reduced. Do not attempt to drive the vehicle back onto the road surface until vehicle speed is reduced.
6. When it is safe to do so, gradually turn the steering wheel until both tires return to the road surface. When all tires are on the road surface, steer the vehicle to stay in the appropriate driving lane.
 - If you decide that it is not safe to return the vehicle to the road surface based on vehicle, road or traffic conditions, gradually slow the vehicle to a stop in a safe place off the road.

RAPID AIR PRESSURE LOSS

Rapid air pressure loss or a “blow-out” can occur if the tire is punctured or is damaged due to hitting a curb or pothole. Rapid air pressure loss can also be caused by driving on under-inflated tires.

Rapid air pressure loss can affect the handling and stability of the vehicle, especially at highway speeds.

Help prevent rapid air pressure loss by maintaining the correct air pressure and visually inspect the tires for wear and damage. See “Wheels and tires” (P.8-27).

If a tire rapidly loses air pressure or “blows-out” while driving maintain control of the vehicle by following the procedure below. Please note that this procedure is only a general guide. The vehicle must be driven as appropriate based on the conditions of the vehicle, road and traffic.

WARNING

The following actions can increase the chance of losing control of the vehicle if there is a sudden loss of tire air pressure. Losing control of the vehicle may cause a collision and result in personal injury.

- **The vehicle generally moves or pulls in the direction of the flat tire.**
- **Do not rapidly apply the brakes.**
- **Do not rapidly release the accelerator pedal.**
- **Do not rapidly turn the steering wheel.**

1. Remain calm and do not overreact.
2. Maintain a firm grip on the steering wheel with both hands and try to hold a straight course.
3. When appropriate, slowly release the accelerator pedal to gradually slow the vehicle.
4. Gradually steer the vehicle to a safe location off the road and away from traffic if possible.
5. Lightly apply the brake pedal to gradually stop the vehicle.
6. Turn on the hazard warning flashers and either contact a roadside emergency service to change the tire or see “Changing a flat tire” (P.6-4).

DRINKING ALCOHOL/DRUGS AND DRIVING

WARNING

Never drive under the influence of alcohol or drugs. Alcohol in the bloodstream reduces coordination, delays reaction time and impairs judgement. Driving after drinking alcohol increases the likelihood of being involved in an accident injuring yourself and others. Additionally, if you are injured in an accident, alcohol can increase the severity of the injury.

INFINITI is committed to safe driving. However, you must choose not to drive under the influence of alcohol. Every year thousands of people are injured or killed in alcohol-related accidents. Although the local laws vary on what is considered to be legally intoxicated, the fact is that alcohol affects all people differently and most people underestimate the effects of alcohol.

Remember, drinking and driving don’t mix! And that is true for drugs, too (over-the-counter, prescription, and illegal drugs). Don’t drive if your ability to operate your vehicle is impaired by alcohol, drugs, or some other physical condition.

DRIVING SAFETY PRECAUTIONS

Your INFINITI is designed for both normal and off-road use. However, avoid driving in deep water or mud as your INFINITI is mainly designed for leisure use, unlike a conventional off-road vehicle.

Remember that Two-Wheel Drive (2WD) models are less capable than Four-Wheel Drive (4WD) models for rough road driving and extrication when stuck in deep snow, mud, or the like.

Please observe the following precautions:

WARNING

- Drive carefully when off the road and avoid dangerous areas. Every person who drives or rides in this vehicle should be seated with their seat belt fastened. This will keep you and your passengers in position when driving over rough terrain.
- Do not drive across steep slopes. Instead drive either straight up or straight down the slopes. Off-road vehicles can tip over sideways much more easily than they can forward or backward.
- Many hills are too steep for any vehicle. If you drive up them, you may stall. If you drive down them, you may not be able to control your speed. If you drive across them, you may roll over.
- Do not shift ranges while driving on downhill grades as this could cause loss of control of the vehicle.
- Stay alert when driving to the top of a hill. At the top there could be a drop-off or other hazard that could cause an accident.
- If your engine stalls or you cannot make it to the top of a steep hill, never attempt to turn around. Your vehicle could tip or roll over. Always back straight down in R (Reverse) range. Never back down in N (Neutral), using only the brake, as this could cause loss of control.
- Heavy braking going down a hill could cause your brakes to overheat and fade, resulting in loss of control and an accident. Apply brakes lightly and use a low range to control your speed.
- Unsecured cargo can be thrown around when driving over rough terrain. Properly secure all cargo so it will not be thrown forward and cause injury to you or your passengers.
- To avoid raising the center of gravity excessively, do not exceed the rated capacity of the roof rack (if so equipped) and evenly distribute the load. Secure heavy loads in the cargo area as far forward and as low as possible. Do not equip the vehicle with tires larger than specified in this manual. This could cause your vehicle to roll over.
- Do not grip the inside or spokes of the steering wheel when driving off-road. The steering wheel could move suddenly and injure your hands. Instead drive with your fingers and thumbs on the outside of the rim.
- Before operating the vehicle, ensure that the driver and all passengers have their seat belts fastened.
- Always drive with the floor mats in place as the floor may became hot.
- Lower your speed when encountering strong crosswinds. With a higher center of gravity, your INFINITI is more affected by strong side winds. Slower speeds ensure better vehicle control.
- Do not drive beyond the performance capability of the tires, even with 4WD engaged.
- For 4WD equipped vehicles, do not attempt to raise two wheels off the ground and shift the transmission to any drive or reverse position with the engine running. Doing so may result in drivetrain damage or unexpected vehicle movement which could result in serious vehicle damage or personal injury.
- Do not attempt to test a 4WD equipped vehicle on a 2-wheel dynamometer (such as the dynamometers used by some

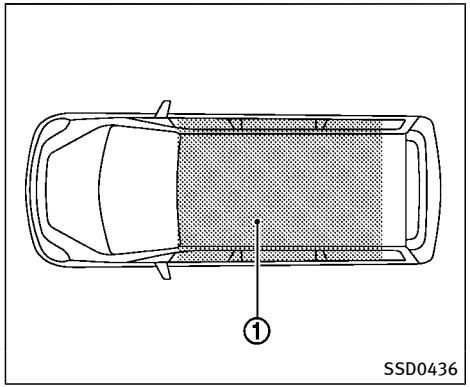
states for emissions testing), or similar equipment even if the other two wheels are raised off the ground. Make sure you inform test facility personnel that your vehicle is equipped with 4WD before it is placed on a dynamometer. Using the wrong test equipment may result in drivetrain damage or unexpected vehicle movement which could result in serious vehicle damage or personal injury (4WD models).

- When a wheel is off the ground due to an unlevel surface, do not spin the wheel excessively.
- Accelerating quickly, sharp steering maneuvers or sudden braking may cause loss of control.
- If at all possible, avoid sharp turning maneuvers, particularly at high speeds. Your vehicle has a higher center of gravity than a conventional passenger car. The vehicle is not designed for cornering at the same speeds as conventional passenger cars. Failure to operate this vehicle correctly could result in loss of control and/or a rollover accident.
- Always use tires of the same type, size, brand, construction (bias, bias-belted or radial), and tread pattern on all four wheels. Install tire chains on the rear wheels when driving on slippery roads and drive carefully.
- Be sure to check the brakes immediately after driving in mud or water. See “Brake system” (P.5-134) for wet brakes.
- Avoid parking your vehicle on steep hills. If you get out of the vehicle and it rolls forward, backward or sideways, you could be injured.
- Whenever you drive off-road through sand, mud or water as deep as the wheel hub, more frequent maintenance may be required. See the maintenance schedules shown in the "9. Maintenance and schedules" section.
- Spinning the rear wheels on slippery surfaces may cause the 4WD warning light to flash. The 4WD system may also automatically switch from the 4WD mode to the 2WD mode. This could reduce traction. Be especially careful when towing a trailer (4WD models).

WARNING

Do not operate the push-button ignition switch while driving the vehicle except in an emergency. (The engine will stop when the ignition switch is pushed 3 consecutive times or the ignition switch is pushed and held for more than 2 seconds.) If the engine stops while the vehicle is being driven, this could lead to a crash and serious injury.

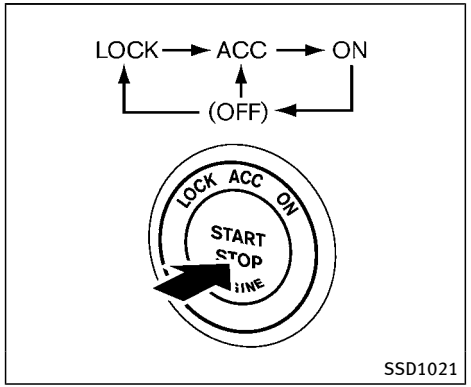
Before operating the push-button ignition switch, be sure to move the shift lever to the P (Park) position.



OPERATING RANGE FOR ENGINE START FUNCTION

The operating range for starting the engine inside the vehicle ① is shown in the illustration.

- If the Intelligent Key is on the instrument panel, cargo area, inside the glove box or door pocket, or the corner of interior compartment, it may not be possible to start the engine.
- If the Intelligent Key is near the door or door glass outside the vehicle, it may be possible to start the engine.



When the ignition switch is pushed without depressing the brake pedal, the ignition switch position will change as follows:

- Push center once to change to ACC.
- Push center two times to change to ON.
- Push center three times to change to OFF. (No position illuminates.)
- Push center four times to return to ACC.
- Open or close any door to return to LOCK during the OFF position.

The ignition lock is designed so that the ignition switch position cannot be switched to LOCK until the shift lever is moved to the P (Park) position.

When the ignition switch cannot be pushed toward the LOCK position, proceed as follows:

1. Move the shift lever into the P (Park) position.
2. Push the ignition switch to the OFF position. The ignition switch position indicator will not illuminate.
3. Open the door. The ignition switch will change to the LOCK position.

The shift lever can be moved from the P (Park) position if the ignition switch is in the ON position and the brake pedal is depressed.

If the battery of the vehicle is discharged, the push-button ignition switch cannot be turned from the LOCK position.

Some indicators and warnings for operation are displayed on the vehicle information display between the speedometer and tachometer. (See “Vehicle information display” (P.2-22).)

PUSH-BUTTON IGNITION SWITCH POSITIONS

LOCK (Normal parking position)

The ignition switch can only be locked in this position.

The ignition switch will be unlocked when it is pushed to the ACC position while carrying the Intelligent Key.

ACC (Accessories)

This position activates electrical accessories such as the radio, when the engine is not running.

ACC has a battery saver feature that will turn the ignition switch to the OFF position after a period of time under the following conditions:

- all doors are closed.
- shift lever is in P (Park).
- turn signal/hazard indicator lights are not flashing.

The battery saver feature will be cancelled if any of the following occur:

- any door is opened.
- shift lever is moved out of P (Park).
- ignition switch changes position.

ON (Normal operating position)

This position turns on the ignition system and electrical accessories.

ON has a battery saver feature that will turn the ignition switch to the OFF position, if the vehicle is not running, after some time under the following conditions:

- all doors are closed.
- shift lever is in P (Park).
- turn signal/hazard indicator lights are not flashing.

The battery saver feature will be cancelled if any of the following occur:

- any door is opened.
- shift lever is moved out of P (Park).
- ignition switch changes position.

OFF

The engine can be turned off in the position.

The ignition lock is designed so that the ignition switch cannot be switched to the LOCK position until the shift lever is moved to the P (Park) position.

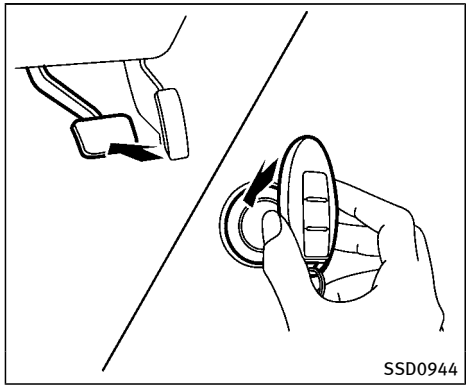
CAUTION

Do not leave the vehicle with the push-button ignition switch in ACC or ON positions when the engine is not running for an extended period. This can discharge the battery.

EMERGENCY ENGINE SHUT OFF

To shut off the engine in an emergency situation while driving, perform the following procedure:

- Rapidly push the push-button ignition switch 3 consecutive times in less than 1.5 seconds, or
- Push and hold the push-button ignition switch for more than 2 seconds.



INTELLIGENT KEY BATTERY DISCHARGE

If the battery of the Intelligent Key is discharged, or environmental conditions interfere with the Intelligent Key operation, start the engine according to the following procedure:

1. Move the shift lever to the P (Park) position.
2. Firmly apply the foot brake.
3. Touch the ignition switch with the Intelligent Key as illustrated. (A chime will sound.)
4. Push the ignition switch while depressing the brake pedal within 10 seconds after the chime sounds. The engine will start.

After step 3 is performed, when the ignition switch is pushed without depressing the brake pedal, the ignition switch position will change to ACC.

NOTE:

- **When the ignition switch is pushed to the ACC or ON position or the engine is started by the above procedures, the Intelligent Key battery discharge indicator appears on the vehicle information display even if the Intelligent Key is inside the vehicle. This is not a malfunction. To turn off the Intelligent Key battery discharge indicator, touch the ignition switch with the Intelligent Key again.**
- **If the Intelligent Key battery discharge indicator appears, replace the battery as soon as possible. (See “Battery” (P.8-12).)**

- Make sure the area around the vehicle is clear.
- Check fluid levels such as engine oil, coolant, brake fluid and window washer fluid as frequently as possible, or at least whenever you refuel.
- Check that all windows and lights are clean.
- Visually inspect tires for their appearance and condition. Also check tires for proper inflation.
- Lock all doors.
- Position seat and adjust head restraints/headrests.
- Adjust inside and outside mirrors.
- Fasten seat belts and ask all passengers to do likewise.
- Check the operation of warning lights when the ignition switch is pushed to the ON position. (See “Warning lights, indicator lights and audible reminders” (P.2-11).)

STARTING THE ENGINE

1. Apply the parking brake.
2. Move the shift lever to the P (Park) or N (Neutral) position. (P is recommended.)

 The starter is designed not to operate unless the shift lever is in either of the above positions.
3. Push the ignition switch to the ON position. Depress the brake pedal and push the ignition switch to start the engine.

 To start the engine immediately, push and release the ignition switch while depressing the brake pedal with the ignition switch in any position.
 - If the engine is very hard to start in extremely cold weather or when restarting, depress the accelerator pedal a little (approximately 1/3 to the floor) and while holding, crank the engine. Release the accelerator pedal when the engine starts.
 - If the engine is very hard to start because it is flooded, depress the accelerator pedal all the way to the floor and hold it. Push the ignition switch to the ON position to start cranking the engine. After 5 or 6 seconds, stop cranking by pushing the ignition switch to OFF. After cranking the engine, release the accelerator pedal. Crank the engine **with your foot off the accelerator pedal** by depressing the brake pedal and pushing the push-button ignition switch to start the engine. If the engine starts, but fails to run, repeat the above procedure.

CAUTION

Do not operate the starter for more than 15 seconds at a time. If the engine does not start, push the ignition switch to OFF and wait 10 seconds before cranking again, otherwise the starter could be damaged.

4. **Warm-up**

 Allow the engine to idle for at least 30 seconds after starting. Do not race the engine while warming it up. Drive at moderate speed for a short distance first, especially in cold weather. In cold weather, keep the engine running for a minimum of 2 - 3 minutes before shutting it off. Starting and stopping the engine over a short period of time may make the vehicle more difficult to start.

 When racing the engine up to 4,000 rpm or more under the no load condition, the engine will enter the fuel cut mode.
5. To stop the engine, shift the shift lever to the P (Park) position and push the ignition switch to the OFF position.

In preparation for the next engine start, the engine may have a slightly delayed shutoff after placing the ignition switch in the OFF position, depending on the driving conditions.

NOTE:

Care should be taken to avoid situations that can lead to potential battery discharge and potential no-start conditions such as:

1. **Installation or extended use of electronic accessories that consume battery power when the engine is not running (Phone chargers, GPS, DVD players, etc.)**
2. **Vehicle is not driven regularly and/or only driven short distances.**

In these cases, the battery may need to be charged to maintain battery health.

REMOTE START (if so equipped)

Vehicles started with the remote engine start function require the ignition switch to be placed in the ON position before the shift lever can be moved from the P (Park) position. To place the ignition switch in the ON position, perform the following steps:

1. Make sure that the Intelligent Key is on you.
2. Depress the brake pedal.
3. Push the ignition switch once to the ON position.

For additional information about the remote engine start function, see “Remote engine start” (P.3-19).

ENGINE PROTECTION MODE

The engine has an engine protection mode to reduce the chance of damage if the coolant temperature becomes too high (for example, when climbing steep grades in high temperature with heavy loads, such as when towing a trailer).

When the engine temperature reaches a certain level:

- The engine coolant temperature gauge will move toward the H position.
- Engine power may be reduced.
- The air conditioning cooling function may be automatically turned OFF for a short time (the blower will continue to operate).

Engine power and, under some conditions, vehicle speed will decrease. Vehicle speed can be controlled with the accelerator pedal, but the vehicle may not accelerate at the desired speed. The transmission will downshift or upshift as it reaches prescribed shift points. You can also shift manually.

As driving conditions change and engine coolant temperature is reduced, vehicle speed can be increased using the accelerator pedal, and air conditioning cooling function will automatically be turned back ON.

If:

1. The engine coolant temperature is not reduced.
2. The air conditioning cooling function does not turn back ON.
3. The engine oil pressure warning light illuminates or engine coolant temperature gauge does not return to the normal range from the H position, this may indicate a malfunction. Move the vehicle off the road to a safe area and allow the engine to cool. If after checking the oil and coolant, the remains on or engine coolant temperature does not return to the normal range, do not continue to drive. It is recommended you contact an INFINITI retailer.

The Malfunction Indicator Light (MIL) may also come ON. You do not need to have your vehicle towed, unless it remains on, but have it inspected soon. It is recommended you visit an INFINITI retailer for this service. See “Warning lights, indicator lights and audible reminders” (P.2-11).

WARNING

Overheating can result in reduced engine power and vehicle speed. The reduced speed may be lower than other traffic, which could increase the chance of a collision. Be especially careful when driving. If the vehicle cannot maintain a safe driving speed, pull to the side of the road in a safe area. Allow the engine to cool and return to normal operation. See "If your vehicle overheats" (P.6-14).

CAUTION

Running the engine with the engine oil pressure warning light on could cause serious damage to the engine almost immediately. Such damage is not covered by warranty. Turn off the engine as soon as it is safe to do so.

AUTOMATIC TRANSMISSION

7 speed automatic transmission

The automatic transmission in your vehicle is electronically controlled by a transmission control module to produce maximum efficiency and smooth operation.

Shown on the following pages are the recommended operating procedures for this transmission. Follow these procedures for maximum vehicle performance and driving enjoyment.

Starting the vehicle

After starting the engine, fully depress the foot brake pedal and push the shift lever button before shifting the shift lever to the R (Reverse), N (Neutral), D (Drive) or Manual shift mode position. Be sure the vehicle is fully stopped before attempting to shift the shift lever.

This automatic transmission model is designed so that the foot brake pedal must be depressed before shifting from P (Park) to any drive position while the ignition switch position is ON.

The shift lever cannot be moved out of the P (Park) position and into any of the other gear positions if the ignition switch is pushed to the LOCK, OFF or ACC position.

1. Keep the foot brake pedal depressed and push the shift lever button to shift into a driving gear.
2. Release the parking brake and foot brake, then gradually start the vehicle in motion.

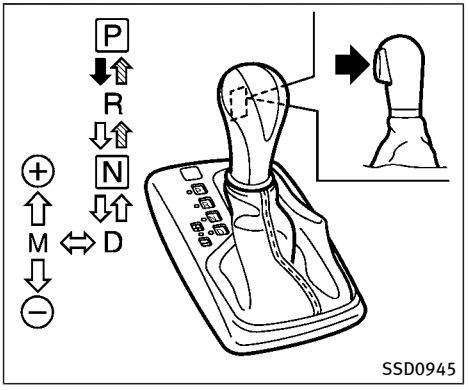
WARNING

- **Do not depress the accelerator pedal while shifting from P (Park) or N (Neutral) to R (Reverse), D (Drive) or manual shift mode. Always depress the brake pedal until shifting is completed. Failure to do so could cause you to lose control and have an accident.**
- **Cold engine idle speed is high, so use caution when shifting into a forward or reverse gear before the engine has warmed up.**
- **Never shift to either P (Park) or R (Reverse) position while the vehicle is moving forward and P (Park) or D (Drive) position while the vehicle is moving reversing. This could cause an accident or damage the transmission.**

- **Do not downshift abruptly on slippery roads. This may cause a loss of control.**

CAUTION

- **To avoid possible damage to your vehicle; when stopping the vehicle on an uphill grade, do not hold the vehicle by depressing the accelerator pedal. The foot brake should be used for this purpose.**
- **Except in an emergency, do not shift to the N (Neutral) position while driving. Coasting with the transmission in the N (Neutral) position may cause serious damage to the transmission.**



Shift lever

To move the shift lever,

➡: Push the button while depressing the brake pedal,

▨: Push the button,

⇨: Just move the shift lever.

Shifting

The shift lever position indicator light (next to the shift lever) will be illuminated for approximately 30 minutes after the ignition switch is turned off. The indicator light may also illuminate when the vehicle receives radio waves. This is not a malfunction.

After starting the engine, fully depress the brake pedal and shift the shift lever from P (Park) to R (Reverse), N (Neutral), D (Drive) or Manual shift mode position.

Push the button to shift into P (Park) or R (Reverse). All other positions can be selected without pushing the button.

WARNING

Apply the parking brake if the shift lever is in any position while the engine is not running. Failure to do so could cause the vehicle to move unexpectedly or roll away and result in serious personal injury or property damage.

CAUTION

Make sure the vehicle is completely stopped and the transmission is in the P (Park) position.

P (Park) position:

Use this position when the vehicle is parked or when starting the engine. Make sure the vehicle is completely stopped. **The**

brake pedal must be depressed and the shift lever button pushed in to move the shift lever from the N (Neutral) position or any drive position to the P (Park) position. Apply the parking brake. When parking on a hill, apply the parking brake first, then move the shift lever to the P (Park) position.

CAUTION

Use this position only when the vehicle is completely stopped.

R (Reverse):

Use this position to back up. Always be sure the vehicle is completely stopped before selecting the R (Reverse) position. **The brake pedal must be depressed and the shift lever button pushed in to move the shift lever from the P (Park) position, the N (Neutral) position or any drive position to the R (Reverse) position.**

N (Neutral):

Neither forward nor reverse gear is engaged. The engine can be started in this position. You may shift to the N (Neutral) position and restart a stalled engine while the vehicle is moving.

D (Drive):

Use this position for all normal forward driving.

Manual shift mode

When the shift lever is in the manual shift gate, the transmission is ready for the manual shift mode. Shift ranges can be selected manually by moving the shift lever up or down.

When shifting up, move the shift lever to the + (up) side. The transmission shifts to the higher range.

When shifting down, move the shift lever to the – (down) side. The transmission shifts to the lower range.

When canceling the manual shift mode, return the shift lever to the D (Drive) position. The transmission returns to the normal driving mode.

In the manual shift mode, the shift range is displayed on the position indicator in the meter.

Shift ranges up or down one by one as follows:

$^{M}1 \underset{\leftarrow}{\overset{\rightarrow}{}} {}^{M}2 \underset{\leftarrow}{\overset{\rightarrow}{}} {}^{M}3 \underset{\leftarrow}{\overset{\rightarrow}{}} {}^{M}4 \underset{\leftarrow}{\overset{\rightarrow}{}} {}^{M}5 \underset{\leftarrow}{\overset{\rightarrow}{}} {}^{M}6 \underset{\leftarrow}{\overset{\rightarrow}{}} {}^{M}7$

^{M}7 (7th):

Use this position for all normal forward driving at highway speeds.

^{M}6 (6th) and ^{M}5 (5th):

Use these positions when driving up long slopes, or for engine braking when driving down long slopes.

^{M}4 (4th), ^{M}3 (3rd) and ^{M}2 (2nd):

Use these positions for hill climbing or engine braking on downhill grades.

^{M}1 (1st):

Use this position when climbing steep hills slowly or driving slowly through deep snow, or for maximum engine braking on steep downhill grades.

- Remember not to drive at high speeds for extended periods of time in lower than 7th gear. This reduces fuel economy.
- Moving the shift lever rapidly to the same side twice will shift the ranges in succession.

- **In the manual shift mode, the transmission may not shift to the selected gear or may automatically shift to the other gear. This helps maintain driving performance and reduces the chance of vehicle damage or loss of control.**
- **When the transmission does not shift to the selected gear, the Automatic Transmission (AT) position indicator light (in the vehicle information display) will blink and the buzzer will sound.**
- **In the manual shift mode, the transmission automatically shifts down to 1st gear before the vehicle comes to a stop. When accelerating again, it is necessary to shift up to the desired range.**

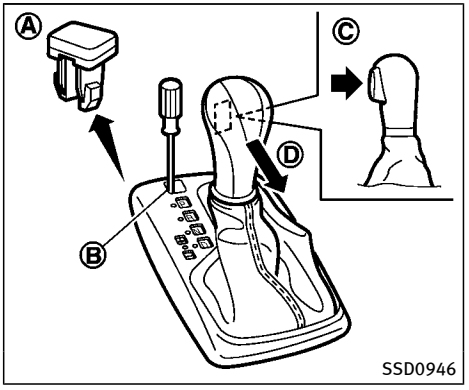
Accelerator downshift — In D (Drive) position —

For passing or hill climbing, fully depress the accelerator pedal to the floor. This shifts the transmission down into the lower gear, depending on the vehicle speed.

Fail-safe

When the fail-safe operation occurs, note that the transmission will be locked in any of the forward gears according to the condition.

If the vehicle is driven under extreme conditions, such as excessive wheel spinning and subsequent hard braking, the fail-safe system may be activated. This will occur even if all electrical circuits are functioning properly. In this case, push the switch to the OFF position and wait for 3 seconds. Then push the ignition switch back to the ON position. The vehicle should return to its normal operating condition. If it does not return to its normal operating condition, have the transmission checked and repaired, if necessary. It is recommended you visit an INFINITI retailer for this service.



Shift lock release

If the battery charge is low or discharged, the shift lever may not be moved from the P (Park) position even with the brake pedal depressed and the shift lever button pushed.

To move the shift lever, perform the following procedure:

1. Push the ignition switch to the OFF or LOCK position.
2. Apply the parking brake.
3. Remove the shift lock cover Ⓐ using a suitable tool.

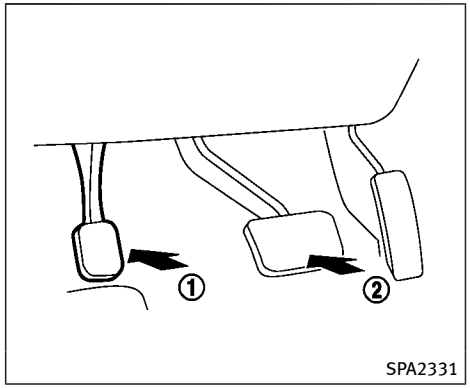
4. Push down the shift lock Ⓑ as illustrated.
5. Push the shift lever button Ⓒ and move the shift lever to N (Neutral) position Ⓓ while holding down the shift lock.

The vehicle may be moved to the desired location.

If the lever cannot be moved out of P (Park), have the automatic transmission system checked as soon as possible. It is recommended you visit an INFINITI retailer for this service.

⚠ WARNING

- **Be sure the parking brake is fully released before driving. Failure to do so can cause brake failure and lead to an accident.**
- **Do not release the parking brake from outside the vehicle.**
- **Do not use the gear shift in place of the parking brake. When parking, be sure the parking brake is fully engaged.**
- **To help avoid risk of injury or death through unintended operation of the vehicle and/or its systems, do not leave children, people who require the assistance of others or pets unattended in your vehicle. Additionally, the temperature inside a closed vehicle on a warm day can quickly become high enough to cause a significant risk of injury or death to people and pets.**



To apply: Fully depress the parking brake pedal ①.

To release:

1. Firmly apply the foot brake ②.
2. Depress the parking brake pedal ① and the parking brake will be released.
3. Before driving, be sure the brake warning light goes out.

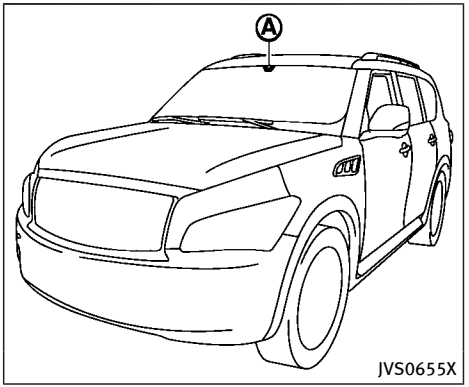
LANE DEPARTURE WARNING (LDW)/LANE DEPARTURE PREVENTION (LDP) (if so equipped)

WARNING

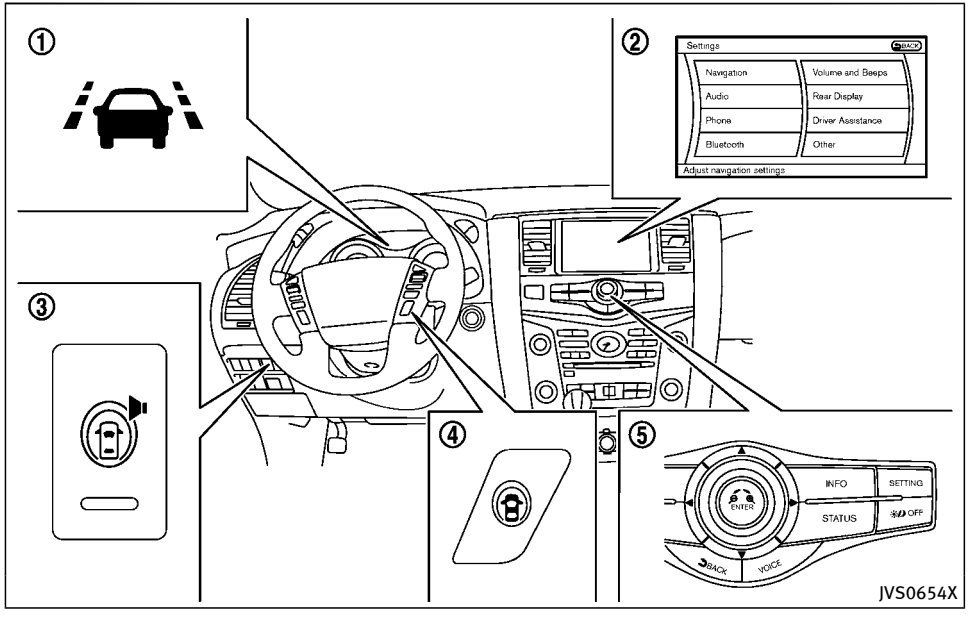
Failure to follow the warnings and instructions for proper use of the LDW and LDP systems could result in serious personal injury or death.

- **The LDW and LDP systems will not steer the vehicle or prevent loss of control. It is the driver's responsibility to stay alert, drive safely, keep the vehicle in the traveling lane, and be in control of the vehicle at all times.**
- **The LDP system may activate if you change lanes without first activating your turn signal or, for example, if a construction zone directs traffic to cross an existing lane marker. If this occurs, you may need to apply corrective steering to complete your lane change.**
- **Because the LDP system may not activate under the road, weather, and lane marker conditions described in this section, it may not activate every time your vehicle begins to leave its lane and you will need to apply corrective steering.**

- Lane Departure Warning (LDW) system
 — warns the driver with a warning light and chime that the vehicle is beginning to leave the driving lane.
- Lane Departure Prevention (LDP) system
 — warns the driver with a warning light and chime, and helps assist the driver to return the vehicle to the center of the traveling lane by applying the brakes to the left or right wheels individually (for a short period of time).



The LDW and LDP systems use a camera Ⓐ installed behind the windshield to monitor the lane markers of your traveling lane.



① LDP ON indicator light/LDW indicator light (on the instrument panel)
② Center display
③ Warning systems switch
④ Dynamic driver assistance switch
⑤ Center multi-function control panel

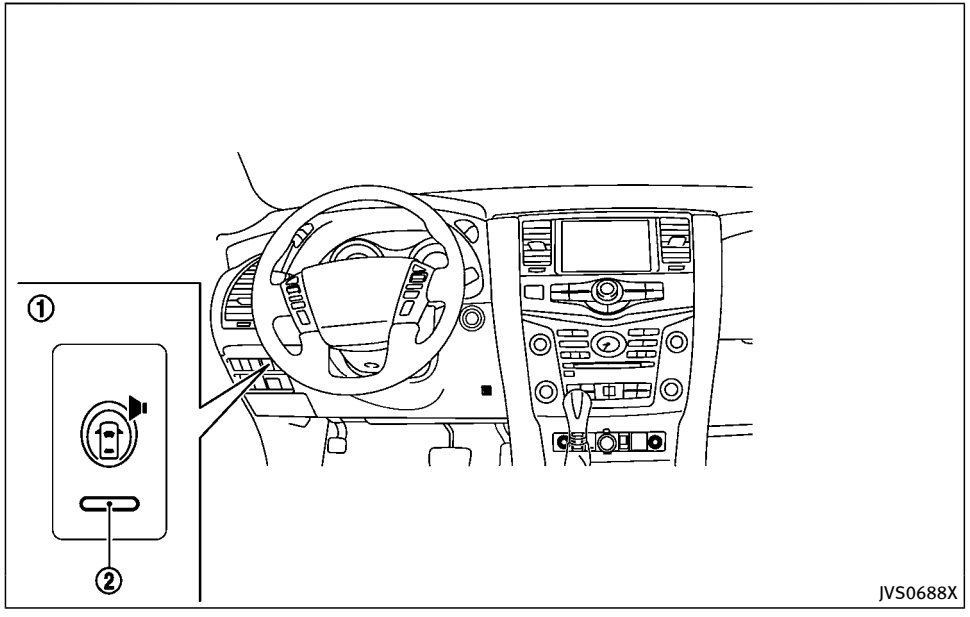
LDW SYSTEM OPERATION

The LDW system operates above approximately 45 MPH (70 km/h) and the lane markings are clear.

If the vehicle approaches either the left or right side of the traveling lane, the LDW indicator light (orange) on the instrument panel will flash and a warning chime will sound.

NOTE:

The LDW system is not designed to warn when you operate the lane change signal and change traveling lanes in the direction of the signal. (The LDW system will become operable again approximately 2 seconds after the lane change signal is turned off.)

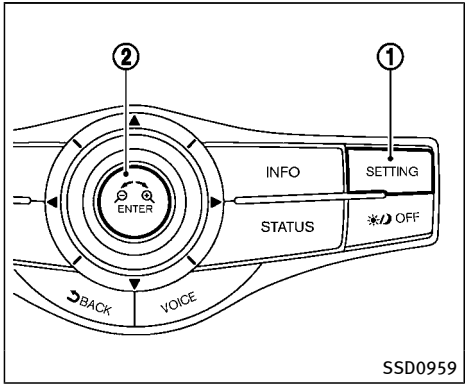


① Warning systems switch
② Warning systems ON indicator light

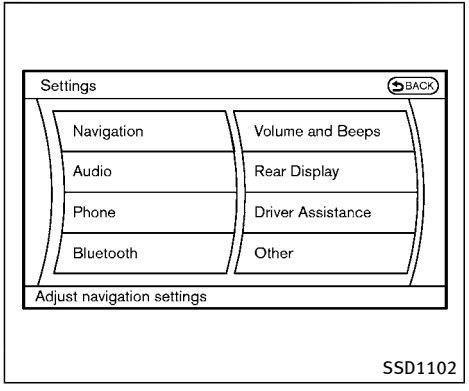
TURNING THE LDW SYSTEM ON/OFF

The warning systems switch ① is used to turn on and off the LDW system when it is activated using the settings menu on the center display. See “How to enable/disable the LDW system” (P.5-26). When the warning systems switch ① is turned off, the warning systems ON indicator light ② on the switch is off.

The warning systems switch ① will turn on and off the LDW and Blind Spot Warning (BSW) systems at the same time.



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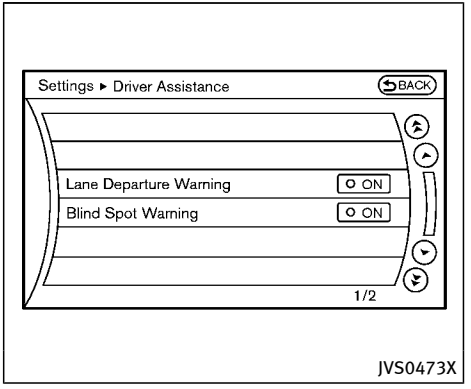


SSD1102

HOW TO ENABLE/DISABLE THE LDW SYSTEM

Perform the following steps to enable or disable the LDW system.

1. Push the SETTING button ① and highlight the “Driver Assistance” key on the display using the INFINITI controller. Then push the ENTER button ②.
2. Highlight the “Driver Assistance Warnings” key, and push the ENTER button ②.



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3. Highlight the “Lane Departure Warning” key, select ON (enabled) or OFF (disabled) and push the ENTER button ②.

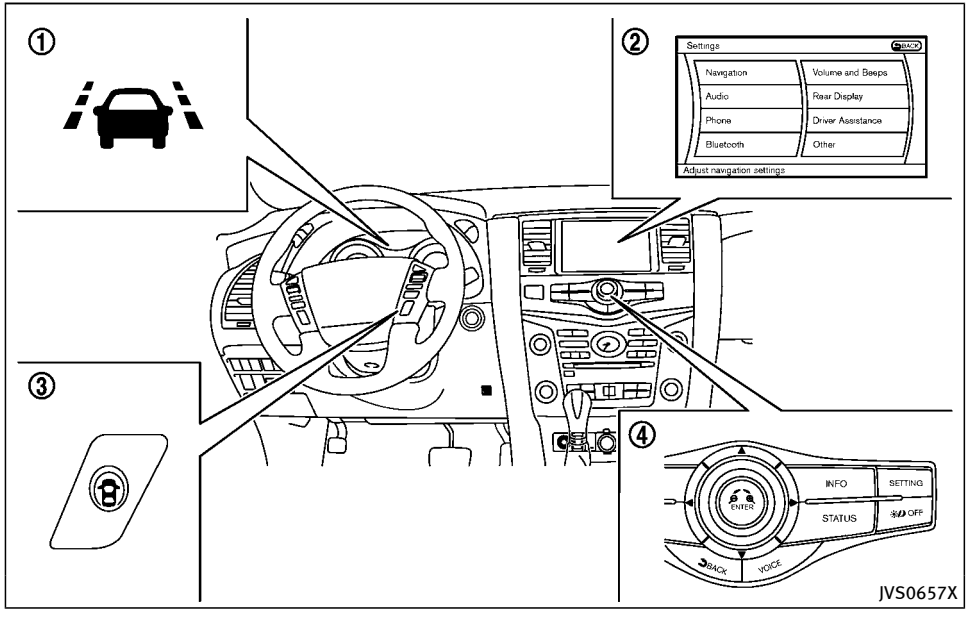
LDP SYSTEM OPERATION

The LDP system operates above approximately 45 MPH (70 km/h) and the lane markings are clear.

If the vehicle approaches either the left or right side of the traveling lane, the LDW indicator light (orange) on the instrument panel will flash and a warning chime will sound. Then, the LDP system will automatically apply the brakes for a short period of time to help assist the driver to return the vehicle to the center of the traveling lane.

NOTE:

- **The LDP system is not designed to work when you operate the lane change signal and change traveling lanes in the direction of the signal. (The LDP system will become operable again approximately 2 seconds after the lane change signal is turned off.)**
- **The LDP braking assist will not operate or will stop operating and only a warning chime will sound under the following conditions.**
 - **— When the brake pedal is depressed.**
 - **— When the steering wheel is turned as far as necessary for the vehicle to change lanes.**
 - **— When the accelerator pedal is depressed while brake control assist is provided.**
 - **— When the Intelligent Cruise Control (ICC), Distance Control Assist (DCA), Blind Spot Intervention (BSI), Blind Spot Warning (BSW), Predictive Forward Collision Warning (PFCW) or Forward Emergency Braking (FEB) warnings sound.**
 - **— When the hazard warning flashers are operated.**
 - **— When driving on a curve at a high speed.**
- **While the LDP system is operating, you may hear a sound of brake operation. This is normal and indicates that the LDP system is operating properly.**



① LDP ON indicator light (green) (on the instrument panel)
② Center display
③ Dynamic driver assistance switch
④ Center multi-function control panel

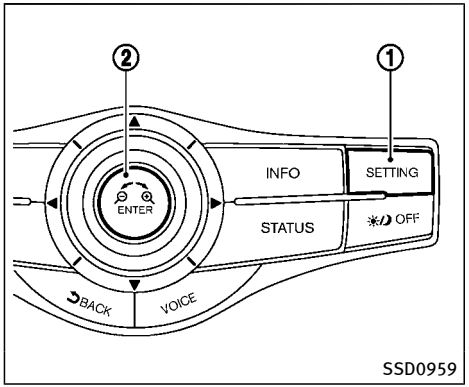
TURNING THE LDP SYSTEM ON/OFF

To turn on the LDP system, push the dynamic driver assistance switch ③ on the steering wheel after starting the engine. The LDP ON indicator light (green) ① on the instrument panel will illuminate. Push the dynamic driver assistance switch ③ again to turn off the LDP system. The LDP ON indicator light (green) ① will turn off.

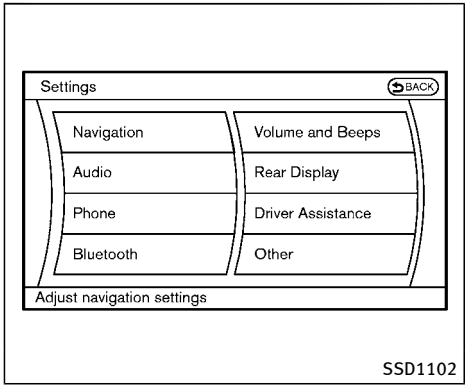
The dynamic driver assistance switch ③ is used for both the LDP and DCA systems.

When the dynamic driver assistance switch ③ is pushed, the DCA system will also turn on or off simultaneously. The LDP system can be individually set to on or off on the center display ② and using the center multi-function control panel ④.

If the system is set to off, the system will not turn on even if the dynamic driver assistance switch ③ is pushed to on. To set the system to on or off on the center display, see “How to enable/disable the LDP system” (P.5-29).



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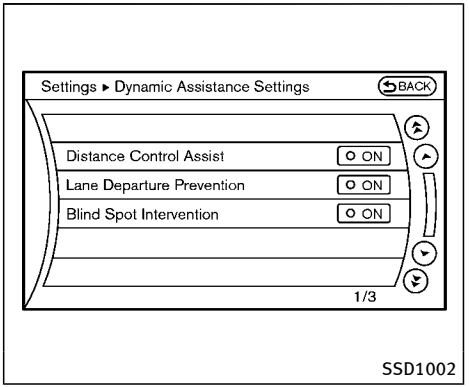


SSD1102

HOW TO ENABLE/DISABLE THE LDP SYSTEM

Perform the following steps to enable or disable the LDP system.

1. Push the SETTING button (1) and highlight the “Driver Assistance” key on the display using the INFINITI controller. Then push the ENTER button (2).
2. Highlight the “Dynamic Assistance Settings” key, and push the ENTER button (2).



SSD1002

3. To enable/disable the LDP system, highlight the “Lane Departure Prevention” key, select ON or OFF and push the ENTER button (2).

For the Blind Spot Intervention (BSI) and Distance Control Assist (DCA) systems, see “Blind Spot Warning (BSW)” (P.5-33) and “Distance Control Assist (DCA)” (P.5-91).

LDW/LDP SYSTEM LIMITATIONS

WARNING

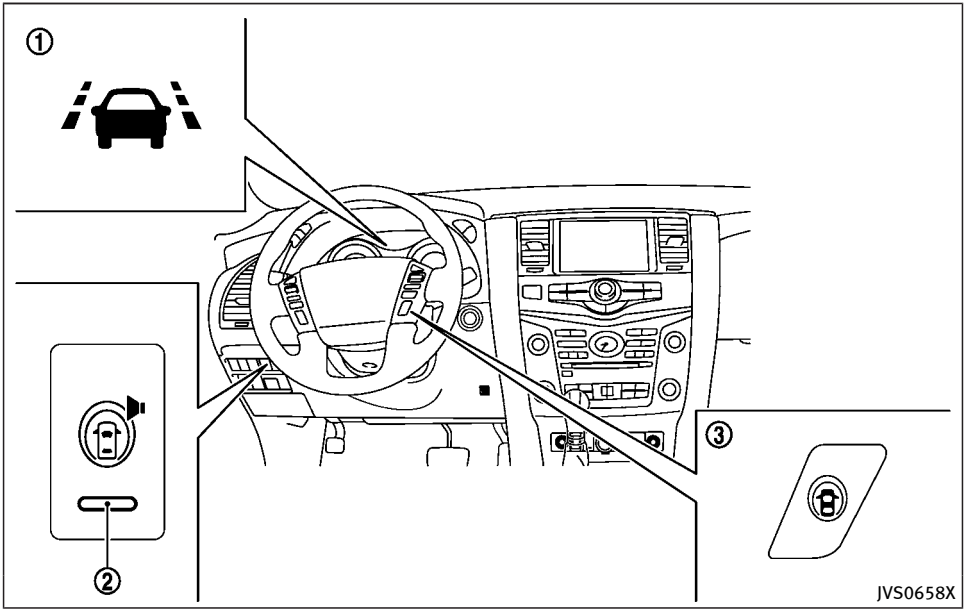
Listed below are the system limitations for the LDW and LDP systems. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **The system will not operate at speeds below 45 MPH (70 km/h) or if it cannot detect lane markers.**
- **The LDP system is primarily intended for use on well-developed freeways or highways. It may not detect the lane markers in certain roads, weather or driving conditions.**
- **Do not use the LDP system under the following conditions as it may not function properly:**
 - **— During bad weather (rain, fog, snow, etc.).**
 - **— When driving on slippery roads, such as on ice or snow, etc.**
 - **— When driving on winding or uneven roads.**
 - **— When there is a lane closure due to road repairs.**
 - **— When driving in a makeshift or temporary lane.**
 - **— When driving on roads where the lane width is too narrow.**
 - **— When driving without normal tire conditions (for example, tire wear, low tire pressure, installation of spare tire, tire chains, non-standard wheels).**
 - **— When the vehicle is equipped with non-original brake parts or suspension parts.**
 - **— When you are towing a trailer or other vehicle.**
- **The camera may not detect lane markers in the following situations and the LDW and LDP systems may not operate properly.**
 - **— On roads where there are multiple parallel lane markers, lane markers that are faded or not painted clearly, yellow painted lane markers, non-standard lane markers, or lane markers covered with water, dirt, snow, etc.**
 - **— On roads where the discontinued lane markers are still detectable.**
 - **— On roads where there are sharp curves.**
 - **— On roads where there are sharply contrasting objects, such as shadows, snow, water, wheel ruts, seams or lines remaining after road repairs. (The LDW and LDP systems could detect these items as lane markers.)**
 - **— On roads where the traveling lane merges or separates.**
 - **— When the vehicle's traveling direction does not align with the lane marker.**
 - **— When traveling close to the vehicle in front of you, which obstructs the lane camera unit detection range.**
 - **— When rain, snow or dirt adheres to the windshield in front of the lane camera unit.**
 - **— When the headlights are not bright due to dirt on the lens or if the aiming is not adjusted properly.**

— When strong light enters the lane camera unit. (For example, the light directly shines on the front of the vehicle at sunrise or sunset.)

— When a sudden change in brightness occurs. (For example, when the vehicle enters or exits a tunnel or under a bridge.)

- Excessive noise will interfere with the warning chime sound, and the chime may not be heard.



① LDP ON indicator light (green) (on the instrument panel)
② Warning systems ON indicator light
③ Dynamic driver assistance switch

SYSTEM TEMPORARILY UNAVAILABLE

Condition A:

Under the following conditions, a beep will sound and the LDP system will be canceled automatically. The LDP ON indicator light (green) ① will blink, and the LDP system cannot be activated:

- When the VDC system (except TCS function) or ABS operates.
- When the VDC system is turned off.
- When the SNOW mode switch is turned on.
- When the 4WD shift switch is in the 4H or 4L position (for 4WD models).

Action to take:

When the above conditions no longer exist, turn off the LDP system. Push the dynamic driver assistance switch ③ again to turn the LDP system back on.

Condition B:

LDW system: If the vehicle is parked in direct sunlight under high temperature conditions (over approximately 104°F (40°C)) and then the LDW system is turned on, the LDW system may be deactivated automatically, and the warning systems ON indicator light ② on the switch will blink.

LDP system: If the vehicle is parked in direct sunlight under high temperature conditions (over approximately 104°F (40°C)) and then the LDP system is turned on, the LDP system will be turned off automatically, a beep will sound and the LDP ON indicator light (green) ① will blink.

The LDW and LDP systems are not available until the conditions no longer exist.

Action to take:

When the above conditions no longer exist, the LDW system will resume automatically.

For the LDP system, push the dynamic driver assistance switch ③ again to turn the LDP system back on.

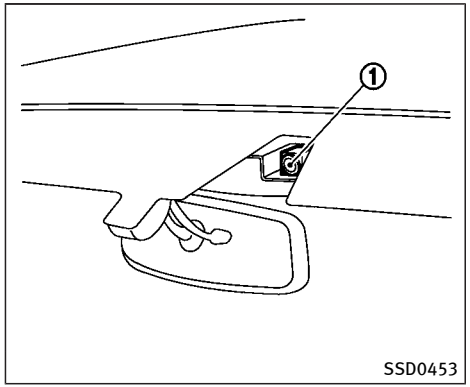
SYSTEM MALFUNCTION

LDW system: When the LDW system malfunctions, it will cancel automatically, and the LDW indicator light (orange) will illuminate.

LDP system: When the LDP system malfunctions, it will be turned off automatically, a beep will sound, and the LDW indicator light (orange) will illuminate.

Action to take:

Stop the vehicle in a safe location, place the vehicle in the P (Park) position, turn the engine off and restart the engine. If the LDW indicator light (orange) continues to illuminate, have the system checked. It is recommended you visit an INFINITI retailer for this service.



SYSTEM MAINTENANCE

The lane camera unit ① for the LDW/LDP systems is located above the inside mirror.

To keep the proper operation of the LDW/LDP systems and prevent a system malfunction, be sure to observe the following:

- Always keep the windshield clean.
- Do not attach a sticker (including transparent material) or install an accessory near the camera unit.
- Do not place reflective materials, such as white paper or a mirror, on the instrument panel. The reflection of sunlight may adversely affect the camera unit's capability of detecting the lane markers.
- Do not strike or damage the areas around the camera unit. Do not touch the camera lens or remove the screw located on the camera unit. It is recommended you contact an INFINITI retailer if the camera unit is damaged due to an accident.

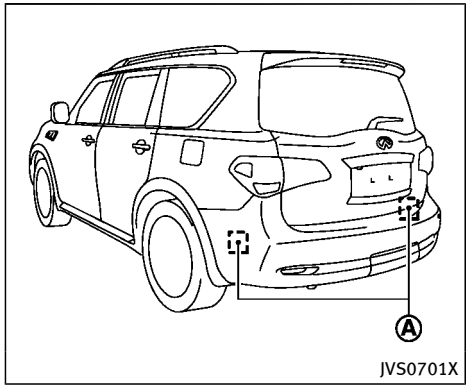
BLIND SPOT WARNING (BSW) (if so equipped)

WARNING

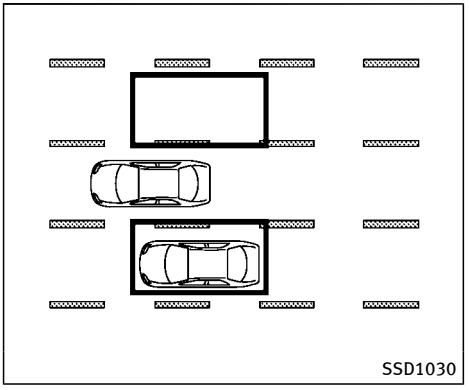
Failure to follow the warnings and instructions for proper use of the BSW system could result in serious injury or death.

- **The BSW system is not a replacement for proper driving procedure and is not designed to prevent contact with vehicles or objects. When changing lanes, always use the side and rear mirrors and turn and look in the direction your vehicle will move to ensure it is safe to change lanes. Never rely solely on the BSW system.**
- **There is a limitation to the detection capability of the radar. Not every moving object or vehicle will be detected. Using the BSW system under some road, ground, lane marker, traffic or weather conditions could lead to improper system operation. Always rely on your own operation to avoid accidents.**

The BSW system helps alert the driver of other vehicles in adjacent lanes when changing lanes.

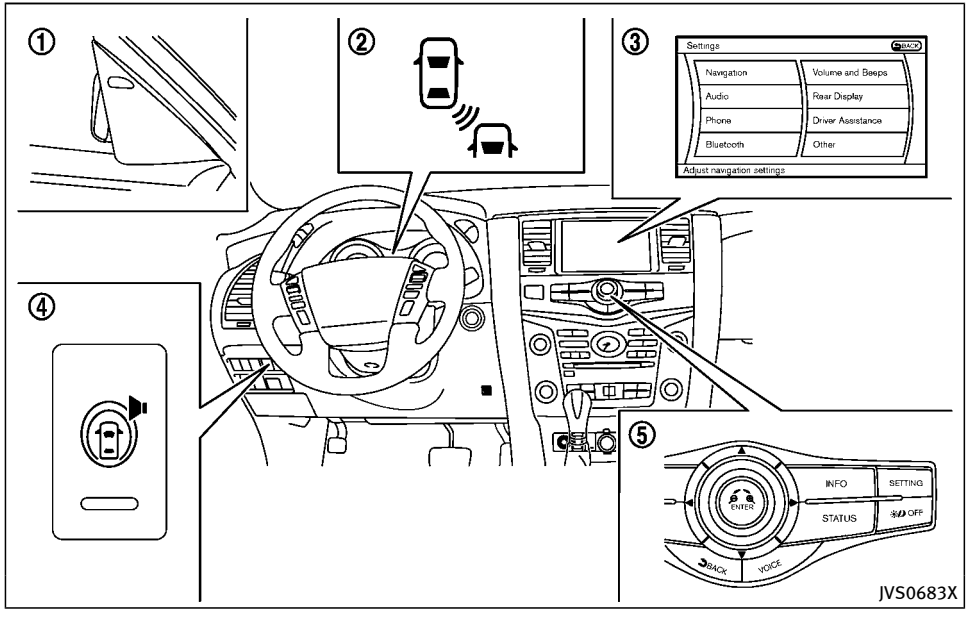


The BSW system uses radar sensors Ⓐ installed near the rear bumper to detect other vehicles in an adjacent lane.



Detection zone

The radar sensors can detect vehicles on either side of your vehicle within the detection zone shown as illustrated. This detection zone starts from the outside mirror of your vehicle and extends approximately 10 ft (3.0 m) behind the rear bumper, and approximately 10 ft (3.0 m) sideways.



① Side indicator light
② BSW system warning light
③ Center display
④ Warning systems switch
⑤ Center multi-function control panel

BSW SYSTEM OPERATION

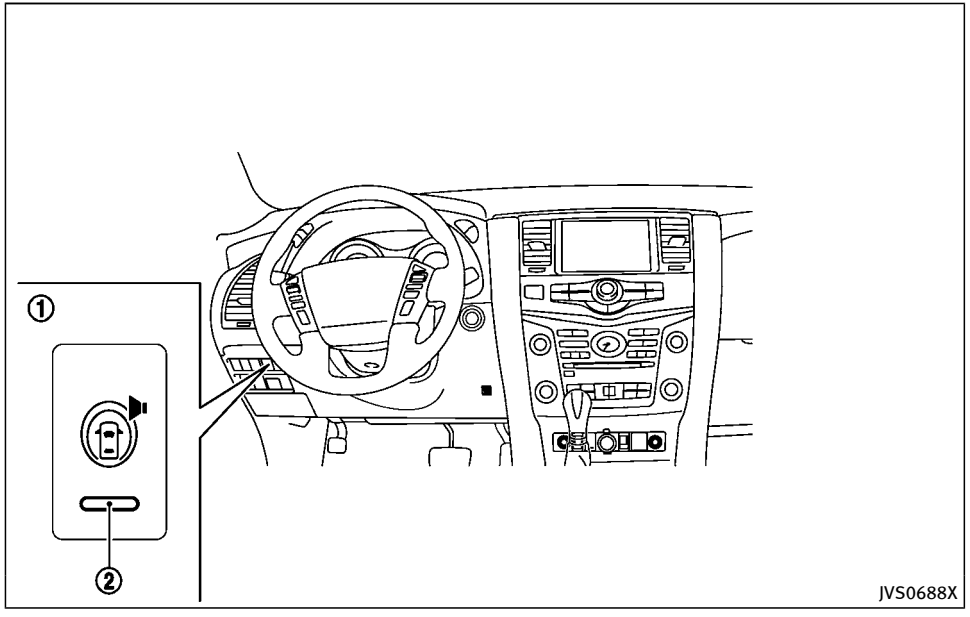
The BSW system operates above approximately 20 MPH (32 km/h).

If the radar sensors detect a vehicle in the detection zone, the side indicator light ① illuminates.

If the turn signal is then activated, the system chimes (twice) and the side indicator light flashes. The side indicator light continues to flash until the detected vehicle leaves the detection zone.

NOTE:

- **The side indicator light illuminates for a few seconds when the ignition switch is placed in the ON position.**
- **The brightness of the side indicator light is adjusted automatically depending on the brightness of the ambient light.**
- **If a vehicle comes into the detection zone after the driver activates the turn signal, then only the side indicator light flashes and no chime sounds. For additional information, refer to “BSW system limitations” (P.5-37).**



① Warning systems switch
② Warning systems ON indicator light

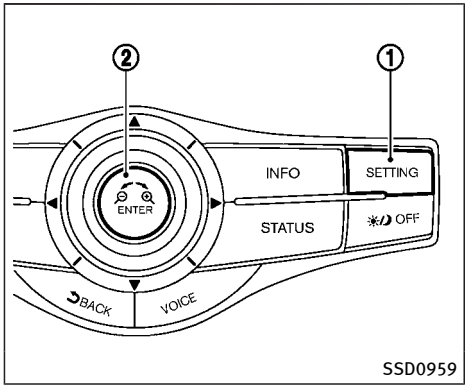
TURNING THE BSW SYSTEM ON/OFF

The warning systems switch ① is used to turn on and off the BSW system when it is activated using the settings menu on the center display. See “How to enable/disable the BSW system” (P.5-36). When the warning systems switch ① is turned off, the warning systems ON indicator light ② on the switch is off.

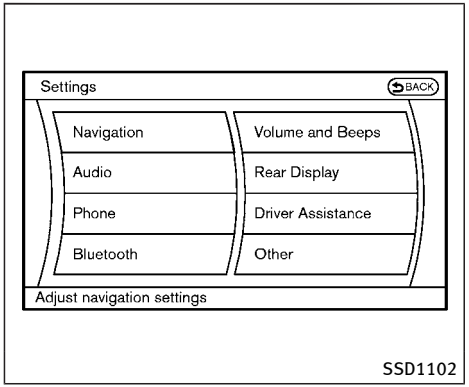
The warning systems switch ① will turn on and off the Lane Departure Warning (LDW) and BSW systems at the same time.

HOW TO ENABLE/DISABLE THE BSW SYSTEM

The BSW system can be turned off permanently using the center display.



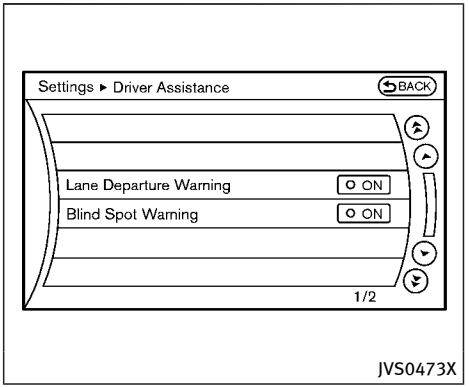
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Perform the following steps to enable or disable the BSW system.

1. Push the SETTING button ① and highlight the “Driver Assistance” key on the display using the INFINITI controller. Then push the ENTER button ②.
2. Highlight the “Driver Assistance Warnings” key, and push the ENTER button ②.



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3. Highlight the “Blind Spot Warning” key, select ON (enabled) or OFF (disabled) and push the ENTER button ②.

BSW SYSTEM LIMITATIONS

WARNING

Listed below are the system limitations for the BSW system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **The BSW system cannot detect all vehicles under all conditions.**

- The radar sensors may not be able to detect and activate BSW when certain objects are present such as:
 - — Pedestrians, bicycles, animals.
 - — Vehicles such as motorcycles, low height vehicles, or high ground clearance vehicles.
 - — Oncoming vehicles.
 - — Vehicles remaining in the detection zone when you accelerate from a stop.
 - — A vehicle merging into an adjacent lane at a speed approximately the same as your vehicle.
 - — A vehicle approaching rapidly from behind.
 - — A vehicle which your vehicle overtakes rapidly.
 - — A vehicle that passes through the detection zone quickly.
- The radar sensor's detection zone is designed based on a standard lane width. When driving in a wider lane, the radar sensors may not detect vehicles in an adjacent lane. When driving in a narrow lane, the radar sensors may detect vehicles driving two lanes away.
- The radar sensors are designed to ignore most stationary objects, however objects such as guardrails, walls, foliage and parked vehicles may occasionally be detected. This is a normal operation condition.
- The following conditions may reduce the ability of the radar to detect other vehicles:
 - — Severe weather
 - — Road spray
 - — Ice/frost/snow build-up on the vehicle
 - — Dirt build-up on the vehicle
- Do not attach stickers (including transparent material), install accessories or apply additional paint near the radar sensors. These conditions may reduce the ability of the radar to detect other vehicles.
- Excessive noise (for example, audio system volume, open vehicle window) will interfere with the chime sound, and it may not be heard.

BSW DRIVING SITUATIONS

Indicator on

Indicator off

Indicator flashing



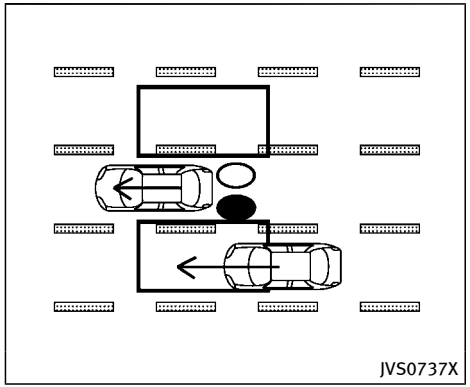


Illustration 1 – Approaching from behind

Another vehicle approaching from behind

Illustration 1: The side indicator light illuminates if a vehicle enters the detection zone from behind in an adjacent lane.

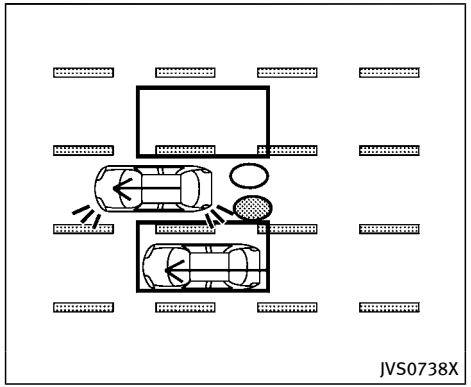


Illustration 2 – Approaching from behind

Illustration 2: If the driver activates the turn signal, then the system chimes (twice) and the side indicator light flashes.

NOTE:

- **The radar sensors may not detect vehicles which are approaching rapidly from behind.**
- **If the driver activates the turn signal before a vehicle enters the detection zone, the side indicator light will flash but no chime will sound when the other vehicle is detected.**

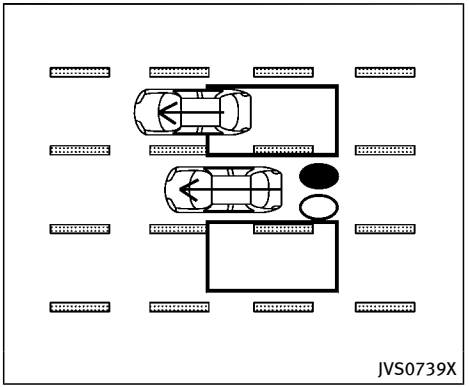


Illustration 3 – Overtaking another vehicle

Overtaking another vehicle

Illustration 3: The side indicator light illuminates if you overtake a vehicle and that vehicle stays in the detection zone for approximately 3 seconds.

The radar sensors may not detect slower moving vehicles if they are passed quickly.

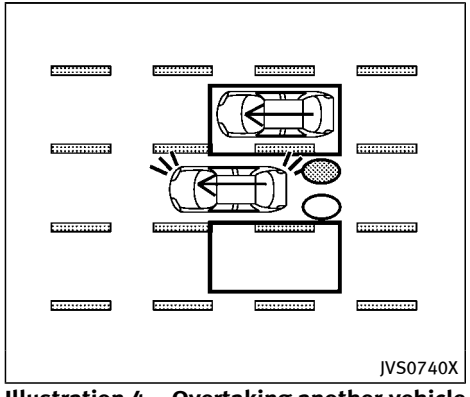


Illustration 4 – Overtaking another vehicle

Illustration 4: If the driver activates the turn signal while another vehicle is in the detection zone, then the system chimes (twice) and the side indicator light flashes.

NOTE:

- **When overtaking several vehicles in a row, the vehicles after the first vehicle may not be detected if they are traveling close together.**
- **The radar sensors may not detect slower moving vehicles if they are passed quickly.**
- **If the driver activates the turn signal before a vehicle enters the detection zone, the side indicator light will flash but no chime will sound when the other vehicle is detected.**

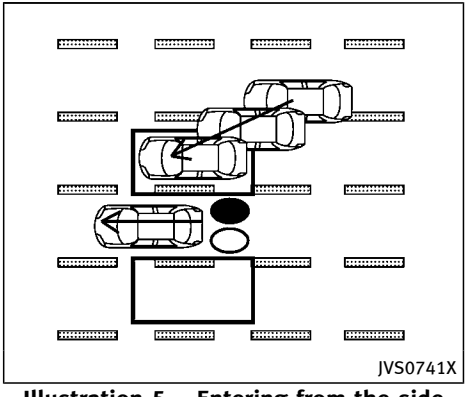


Illustration 5 – Entering from the side

Entering from the side

Illustration 5: The side indicator light illuminates if a vehicle enters the detection zone from either side.

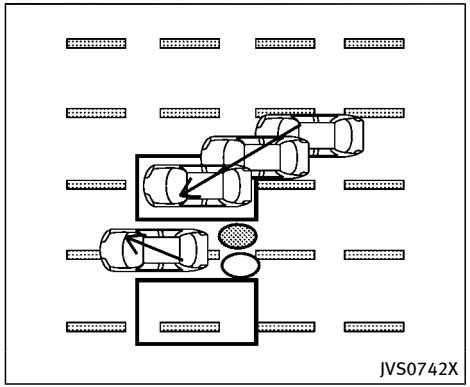
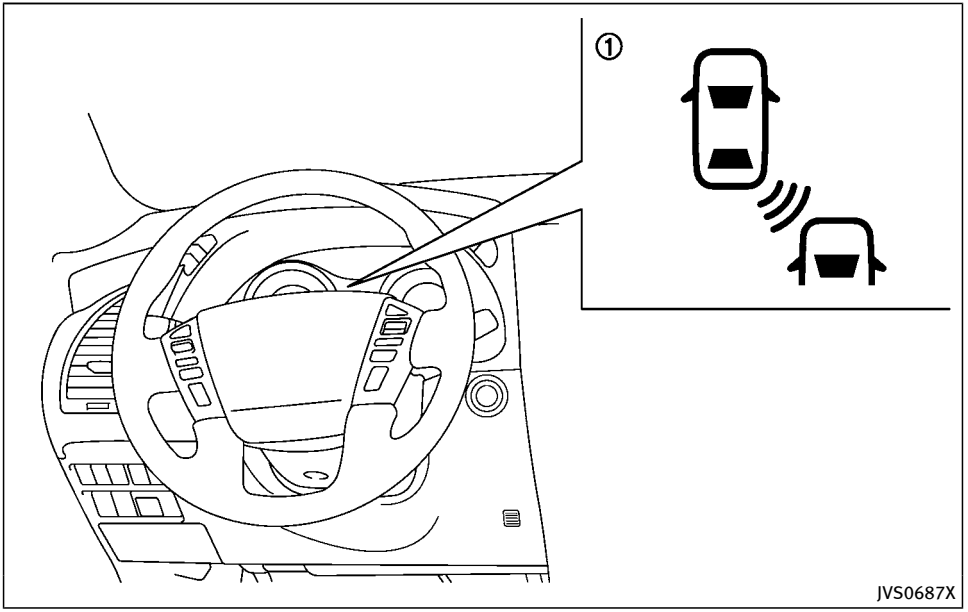


Illustration 6 – Entering from the side
Illustration 6: If the driver activates the turn signal, then the system chimes (twice) and the side indicator light flashes.

NOTE:

- **The radar sensors may not detect a vehicle which is traveling at about the same speed as your vehicle when it enters the detection zone.**
- **If the driver activates the turn signal before a vehicle enters the detection zone, the side indicator light will flash but no chime will sound when the other vehicle is detected.**



① BSW system warning light (orange)

SYSTEM TEMPORARILY UNAVAILABLE

When radar blockage is detected, the system will be turned off automatically, a beep will sound and the BSW system warning light (orange) ① will blink. The system is not available until the conditions no longer exist.

The radar sensors may be blocked by temporary ambient conditions such as splashing water, mist or fog. The blocked condition may also be caused by objects such as ice, frost or dirt obstructing the radar sensors.

Action to take:

When the above conditions no longer exist, the system will resume automatically.

If the BSW system warning light (orange) ① continues to blink, have the system checked. It is recommended you visit an INFINITI retailer for this service.

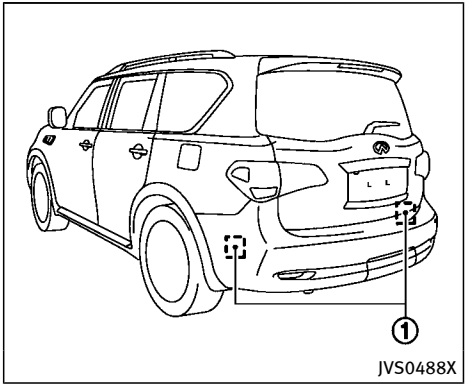
SYSTEM MALFUNCTION

When the system malfunctions, it will be turned off automatically, a beep will sound and the BSW system warning light (orange) will illuminate.

Action to take:

Stop the vehicle in a safe location, place the vehicle in the P (Park) position, turn the engine off and restart the engine.

If the BSW system warning light continues to illuminate, have the system checked. It is recommended you visit an INFINITI retailer for this service.



SYSTEM MAINTENANCE

The two radar sensors ① for the BSW system are located near the rear bumper. Always keep the area near the radar sensors clean.

The radar sensors may be blocked by temporary ambient conditions such as splashing water, mist or fog.

The blocked condition may also be caused by objects such as ice, frost or dirt obstructing the radar sensors.

Check for and remove objects obstructing the area around the radar sensors.

Do not attach stickers (including transpar-

ent material), install accessories or apply additional paint near the radar sensors.

Do not strike or damage the area around the radar sensors.

It is recommended you visit an INFINITI retailer if the area around the radar sensors is damaged due to a collision.

Radio frequency statement

This device complies with part 15 of the FCC Rules and RSS-310 of Industry Canada.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Frequency of operation: 24.05GHz — 24.25GHz

Field Strength: Not greater than 2.5V/m peak (0.25V/m average) at a distance of 3 m

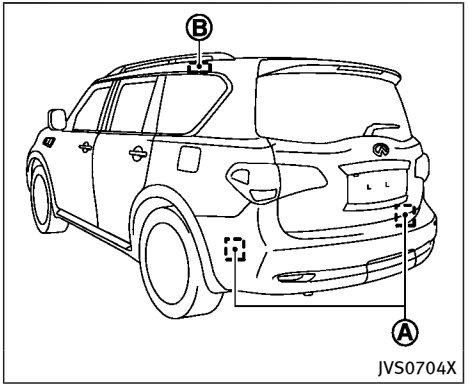
The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

⚠ WARNING

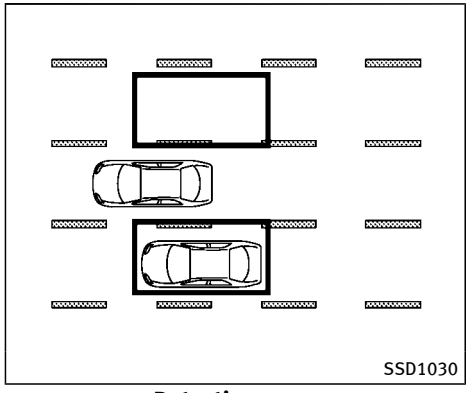
Failure to follow the warnings and instructions for proper use of the BSI system could result in serious injury or death.

- **The BSI system is not a replacement for proper driving procedures and is not designed to prevent contact with vehicles or objects. When changing lanes, always use the side and rear mirrors and turn and look in the direction your vehicle will move to ensure it is safe to change lanes. Never rely solely on the BSI system.**
- **There is a limitation to the detection capability of the radar. Not every moving object or vehicle will be detected. Using the BSI system under some road, ground, lane marker, traffic or weather conditions could lead to improper system operation. Always rely on your own operation to avoid accidents.**

The BSI system helps alert the driver of other vehicles in adjacent lanes when changing lanes and helps assist the driver to return the vehicle to the center of the traveling lane.



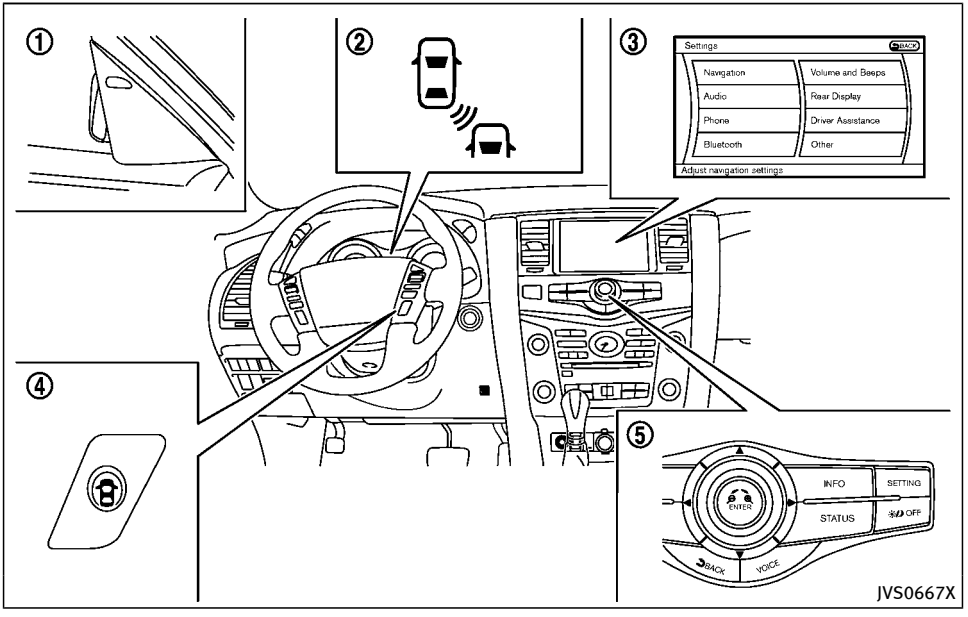
The BSI system uses radar sensors Ⓐ installed near the rear bumper to detect other vehicles in an adjacent lane. In addition to the radar sensors, the BSI system uses a camera Ⓑ installed behind the windshield to monitor the lane markers of your traveling lane.



Detection zone

The radar sensors can detect vehicles on either side of your vehicle within the detection zone shown as illustrated.

This detection zone starts from the outside mirror of your vehicle and extends approximately 10 ft (3.0 m) behind the rear bumper, and approximately 10 ft (3.0 m) sideways.



① Side indicator light
② BSI ON indicator light (green)/BSI system warning light (orange)
③ Center display
④ Dynamic driver assistance switch
⑤ Center multi-function control panel

BSI SYSTEM OPERATION

The BSI system operates above approximately 37 MPH (60 km/h).

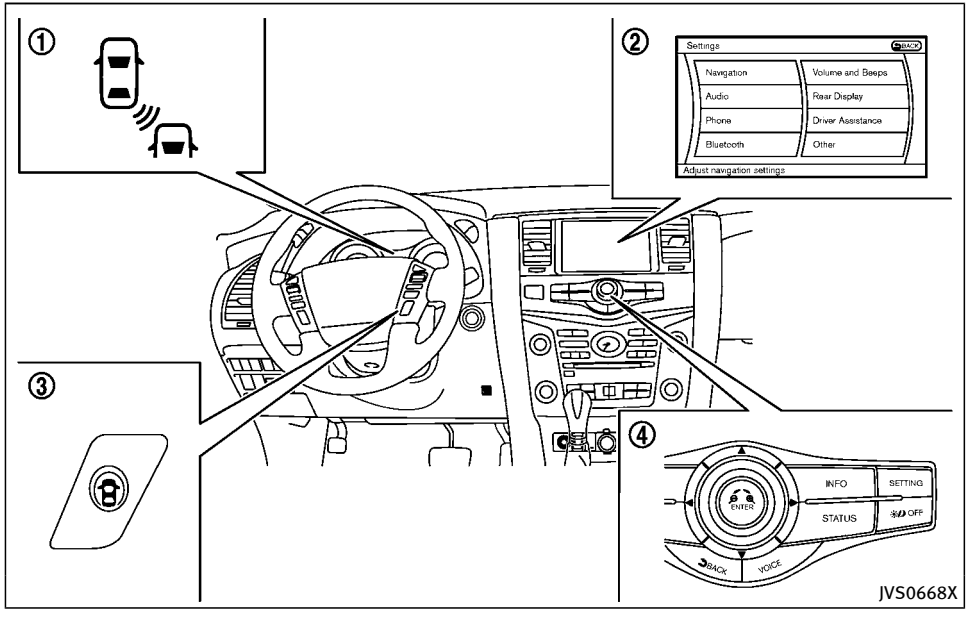
If the radar sensors detect a vehicle in the detection zone, the side indicator light ① illuminates.

If the turn signal is then activated, the system chimes (twice) and the side indicator light flashes. The side indicator light continues to flash until the detected vehicle leaves the detection zone.

If the BSI system is ON and your vehicle approaches a lane marker while another vehicle is in the detection zone, the system chimes (three times) and the side indicator light flashes. Then the BSI system slightly applies the brakes to help return the vehicle back to the center of the driving lane. The BSI system operates regardless of turn signal usage.

NOTE:

- **Warning and system application of the brakes will only be activated if the side indicator light is already illuminated when your vehicle approaches a lane marker. If another vehicle comes into the detection zone after your vehicle has crossed a lane marker, no warning or system application of the brakes will be activated. (See "BSI driving situations" (P.5-49).)**
- **The BSI system is typically activated earlier than the Lane Departure Prevention (LDP) system when your vehicle is approaching a lane marker.**



① BSI ON indicator light (green)
② Center display
③ Dynamic driver assistance switch
④ Center multi-function control panel

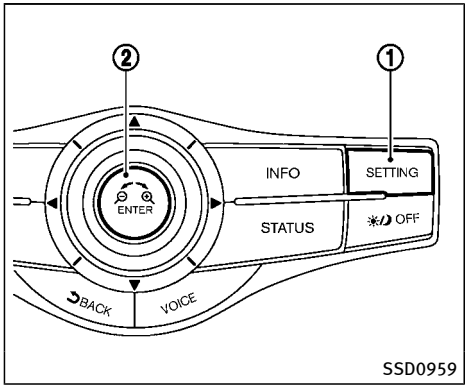
TURNING THE BSI SYSTEM ON/OFF

To turn on the BSI system, push the dynamic driver assistance switch ③ on the steering wheel after starting the engine. The BSI ON indicator light (green) ① on the instrumental panel will illuminate.

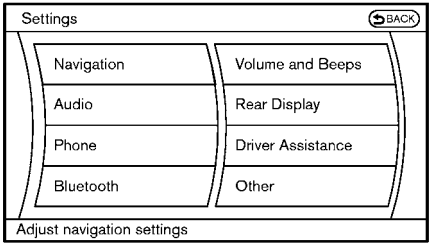
Push the dynamic driver assistance switch ③ again to turn off the BSI system. The BSI ON indicator light (green) ① will turn off.

The dynamic driver assistance switch ③ is used for the BSI, Lane Departure Prevention (LDP) and Distance Control Assist (DCA) systems. When the dynamic driver assistance switch ③ is pushed, the LDP and DCA systems will also turn on or off simultaneously. The BSI system can be individually set to on or off on the center display ②.

If the system is set to off, the system will not turn on even if the dynamic driver assistance switch ③ is pushed to on. To set the system to on or off on the center display, see “How to enable/disable the BSI system” (P.5-47).



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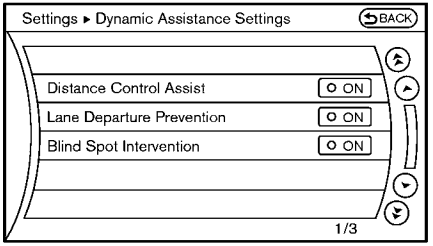


SSD1102

HOW TO ENABLE/DISABLE THE BSI SYSTEM

Perform the following steps to enable or disable the BSI system.

1. Push the SETTING button (1) and highlight the “Driver Assistance” key on the display using the INFINITI controller. Then push the ENTER button (2).
2. Highlight the “Dynamic Assistance Settings” key, and push the ENTER button (2).



SSD1002

3. Highlight the “Blind Spot Intervention” key, select ON (enabled) or OFF (disabled) and push the ENTER button (2).

For the Lane Departure Prevention (LDP) and Distance Control Assist (DCA) systems, see “Lane Departure Warning (LDW)/Lane Departure Prevention (LDP) ” (P.5-23) and “Distance Control Assist (DCA)” (P.5-91).

BSI SYSTEM LIMITATIONS

WARNING

Listed below are the system limitations for the BSI system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **The BSI system cannot detect all vehicles under all conditions.**
- **The radar sensors may not be able to detect and activate BSI when certain objects are present such as:**
 - **— Pedestrians, bicycles, animals.**
 - **— Vehicles such as motorcycles, low height vehicles, or high ground clearance vehicles.**
 - **— Vehicles remaining in the detection zone when you accelerate from a stop.**
 - **— Oncoming vehicles.**
 - **— A vehicle merging into an adjacent lane at a speed approximately the same as your vehicle.**
 - **— A vehicle approaching rapidly from behind.**
 - **— A vehicle which your vehicle overtakes rapidly.**
 - **— A vehicle that passes through the detection zone quickly.**
- **The radar sensor's detection zone is designed based on a standard lane width. When driving in a wider lane, the radar sensors may not detect vehicles in an adjacent lane. When driving in a narrow lane, the radar sensors may detect vehicles driving two lanes away.**
- **The radar sensors are designed to ignore most stationary objects, however objects such as guardrails, walls, foliage and parked vehicles may occasionally be detected. This is a normal operation condition.**
- **The camera may not detect lane markers in the following situations and the BSI system may not operate properly.**
 - **— On roads where there are multiple parallel lane markers; lane markers that are faded or not painted clearly; yellow painted lane markers; non-standard lane markers; lane markers covered with water, dirt, snow, etc.**
 - **— On roads where discontinued lane markers are still detectable.**
 - **— On roads where there are sharp curves.**
 - **— On roads where there are sharply contrasting objects, such as shadows, snow, water, wheel ruts, seams or lines remaining after road repairs.**
 - **— On roads where the traveling lane merges or separates.**
 - **— When the vehicle's traveling direction does not align with the lane markers.**
 - **— When traveling close to the vehicle in front of you, which obstructs the lane camera unit detection range.**
 - **— When rain, snow or dirt adheres to the windshield in front of a lane camera unit.**
 - **— When the headlights are not bright due to dirt on the lens or if aiming is not adjusted properly.**
 - **— When strong light enters a lane camera unit. (For example: light**

directly shines on the front of the vehicle at sunrise or sunset.)

— When a sudden change in brightness occurs. (For example: when the vehicle enters or exits a tunnel or under a bridge.)

- Do not use the BSI system under the following conditions because the system may not function properly.
 - — During bad weather. (For example: rain, fog, snow, etc.)
 - — When driving on slippery roads, such as on ice or snow, etc.
 - — When driving on winding or uneven roads.
 - — When there is a lane closure due to road repairs.
 - — When driving in a makeshift or temporary lane.
 - — When driving on roads where the lane width is too narrow.
 - — When driving with a tire that is not within normal tire conditions (for example, tire wear, low tire pressure, installation of spare tire, tire chains, non-standard wheels).
 - — When the vehicle is equipped with non-original brake parts or suspension parts.
 - — When towing a trailer or other vehicle.
- Excessive noise (for example, audio system volume, open vehicle window) will interfere with the chime sound, and it may not be heard.

BSI DRIVING SITUATIONS

Indicator on

Indicator off

Indicator flashing

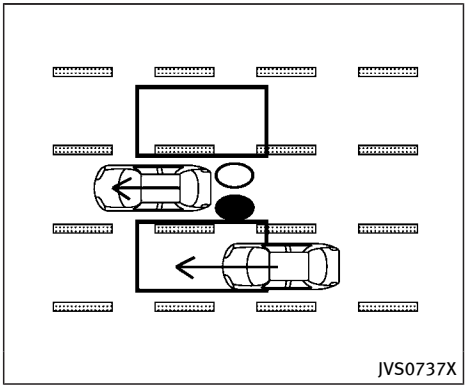


Illustration 1 - Approaching from behind

Another vehicle approaching from behind

Illustration 1: The side indicator light illuminates if a vehicle enters the detection zone from behind in an adjacent lane.

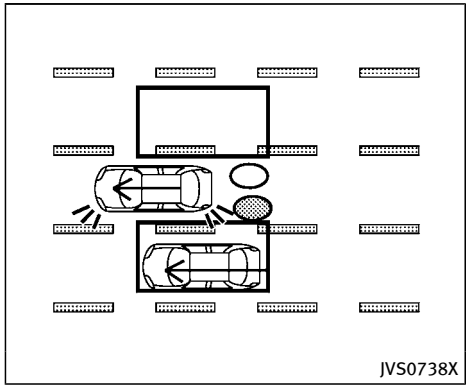


Illustration 2 - Approaching from behind
Illustration 2: If the driver activates the turn signal then the system chimes (twice) and the side indicator light flashes.

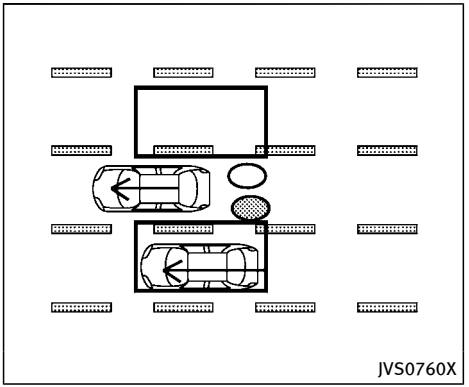


Illustration 3 - Approaching from behind
Illustration 3: If the BSI system is on and your vehicle approaches a lane marker while another vehicle is in the detection zone, the system chimes (three times) and the side indicator light flashes. Then the BSI system slightly applies the brakes to help return the vehicle back to the center of the driving lane.

NOTE:

- **The radar sensors may not detect vehicles which are approaching rapidly from behind.**
- **If the driver activates the turn signal before a vehicle enters the detection zone, the side indicator light will flash but no chime will sound when the other vehicle is detected.**

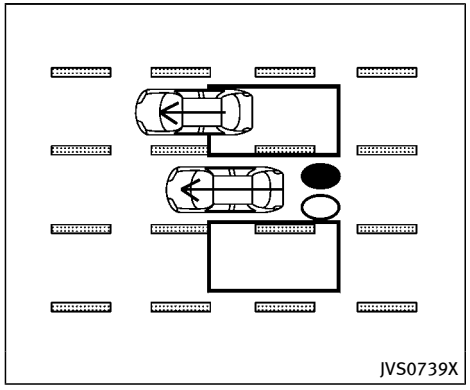


Illustration 4 - Overtaking another vehicle

Overtaking another vehicle

Illustration 4: The side indicator light illuminates if you overtake a vehicle and that vehicle stays in the detection zone for approximately 3 seconds.

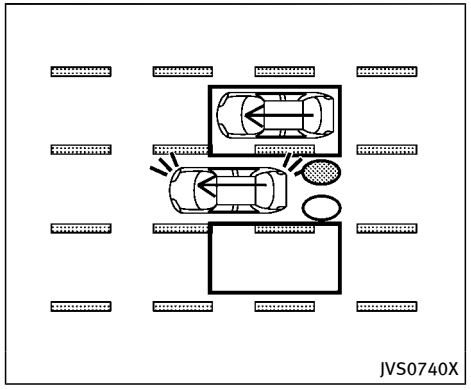


Illustration 5 - Overtaking another vehicle

Illustration 5: If the driver activates the turn signal while another vehicle is in the detection zone, then the system chimes (twice) and the side indicator light flashes.

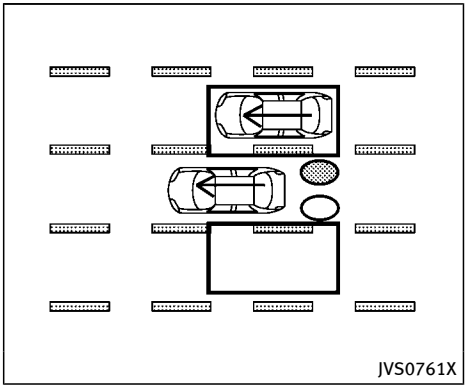


Illustration 6 - Overtaking another vehicle

Illustration 6: If the BSI system is on and your vehicle approaches a lane marker while another vehicle is in the detection zone, the system chimes (three times) and the side indicator light flashes. Then, the BSI system slightly applies the brakes on the appropriate side to help return the vehicle back to the center of the driving lane.

NOTE:

- **When overtaking several vehicles in a row, the vehicles after the first vehicle may not be detected if they are traveling close together.**

- **The radar sensors may not detect slower moving vehicles if they are passed quickly.**
- **If the driver activates the turn signal before a vehicle enters the detection zone, the side indicator light will flash but no chime will sound when the other vehicle is detected.**

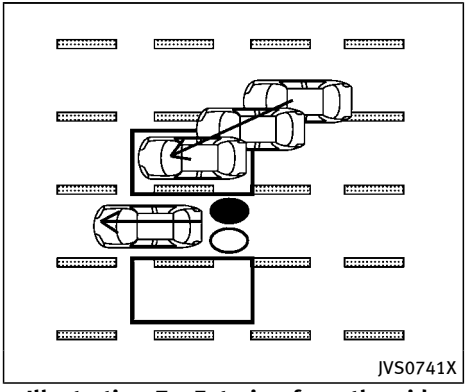


Illustration 7 - Entering from the side

Entering from the side

Illustration 7: The side indicator light illuminates if a vehicle enters the detection zone from either side.

NOTE:

The radar sensors may not detect a vehicle which is traveling at about the same speed as your vehicle when it enters the detection zone.

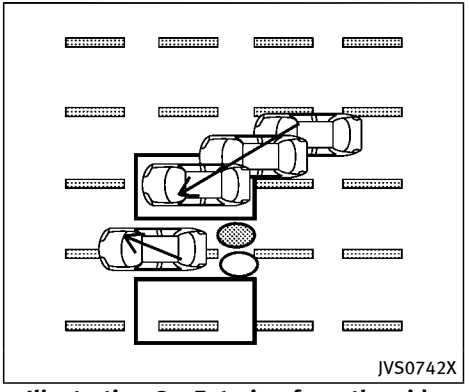


Illustration 8 - Entering from the side

Illustration 8: If the driver activates the turn signal while another vehicle is in the detection zone, then the side indicator light flashes and a chime will sound twice.

NOTE:

If the driver activates the turn signal before a vehicle enters the detection zone, the side indicator light will flash but no chime will sound when another vehicle is detected.

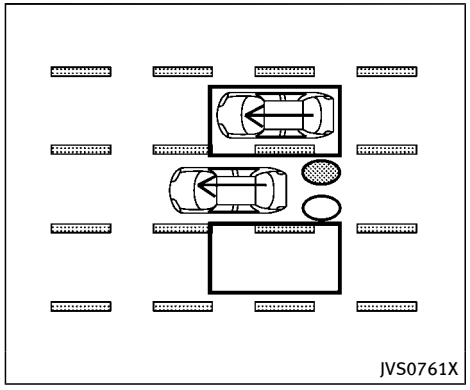


Illustration 9 - Entering from the side

Illustration 9: If the BSI system is on and your vehicle approaches the lane marker while another vehicle is in the detection zone, the system chimes (three times) and the side indicator light flashes. The BSI system slightly applies the brakes on the appropriate side to help return the vehicle back to the center of the driving lane.

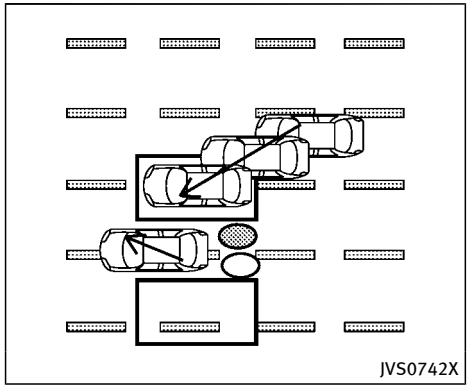
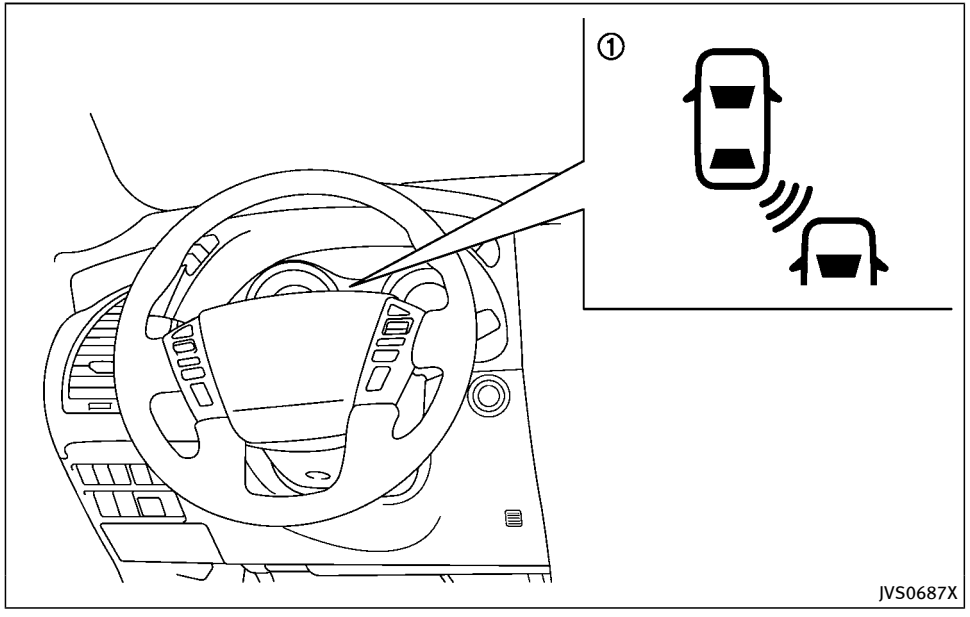


Illustration 10 - Entering from the side

Illustration 10: The BSI system will not operate if your vehicle is on a lane marker when another vehicle enters the detection zone. In this case only the BSW system operates.

NOTE:

- **The radar sensors may not detect a vehicle which is traveling at about the same speed as your vehicle when it enters the detection zone.**
- **If the driver activates the turn signal before a vehicle enters the detection zone, the side indicator light will flash but no chime will sound when the other vehicle is detected.**
- **BSI braking will not operate or will stop operating and only a warning chime will sound under the following conditions.**
 - **— When the brake pedal is depressed.**
 - **— When the vehicle is accelerated during BSI system operation.**
 - **— When steering quickly**
 - **— When the ICC, DCA, PFCW or FEB warnings sound.**
 - **— When the hazard warning flashers are operated.**
 - **— When driving on a curve at a high speed.**



① BSI ON indicator light (green)/BSI system warning light (orange)

SYSTEM TEMPORARILY UNAVAILABLE

- Under the following conditions, a chime will sound, the BSI ON indicator light (green) ① will blink and the BSI system will be turned off automatically. The BSI system will not be available until the conditions no longer exist.
 - — When the VDC system (except TCS function) or ABS operates.
 - — When the VDC system is turned off.

Action to take:

Turn off the BSI system and turn it on again when the above conditions no longer exist.

- Under the following conditions, the BSI system will be turned off automatically, a chime will sound and the BSI system warning light (orange) ① will blink. The BSI system is not available until the conditions no longer exist.
 - — When the camera detects that the interior temperature is high (over approximately 104°F (40°C)).
 - — When radar blockage is detected.

The radar sensors may be blocked by temporary ambient conditions such as splashing water, mist or fog. The blocked condition may also be caused by objects

such as ice, frost or dirt obstructing the radar sensors.

Action to take:

When the above conditions no longer exist, turn the BSI system off and turn it on again. If the BSI system warning light (orange) ① continues to blink even after the BSI system is turned on again, stop the vehicle in a safe location, place the shift lever in the P (Park) position and turn the engine off. Check for and remove objects obscuring the radar sensors on the rear bumper, and restart the engine.

If the BSI system warning light (orange) ① continues to blink, have the BSI system checked. It is recommended you visit an INFINITI retailer for this service.

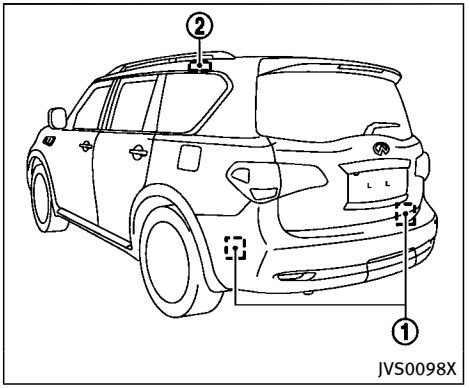
SYSTEM MALFUNCTION

When the BSI system malfunctions, it will be turned off automatically, a chime will sound and the BSI system warning light (orange) will illuminate.

Action to take:

Stop the vehicle in a safe location, place the shift lever in the P (Park) position, turn the engine off and restart the engine.

If the warning light (orange) continues to illuminate, have the BSI system checked. It is recommended you visit an INFINITI retailer for this service.



SYSTEM MAINTENANCE

The two radar sensors ① for the BSI system are located near the rear bumper. Always keep the area near the radar sensors clean.

The radar sensors may be blocked by temporary ambient conditions such as splashing water, mist or fog.

The blocked condition may also be caused by objects such as ice, frost or dirt obstructing the radar sensors.

Check for and remove objects obstructing the area around the radar sensors.

Do not attach stickers (including transpar-

ent material), install accessories or apply additional paint near the radar sensors.

Do not strike or damage the area around the radar sensors.

It is recommended you visit an INFINITI retailer if the area around the radar sensors is damaged due to a collision.

The lane camera unit ② for BSI system is located above the inside mirror. To keep the proper operation of BSI and prevent a system malfunction, be sure to observe the following:

- Always keep the windshield clean.
- Do not attach a sticker (including transparent material) or install an accessory near the camera unit.
- Do not place reflective materials, such as white paper or a mirror, on the instrument panel. The reflection of sunlight may adversely affect the camera unit's capability of detecting the lane markers.
- Do not strike or damage the areas around the camera unit. Do not touch the camera lens or remove the screw located on the camera unit. It is recommended you contact an INFINITI retailer if the camera unit is damaged due to an accident.

Radio frequency statement

This device complies with part 15 of the FCC Rules and RSS-310 of Industry Canada.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Frequency of operation: 24.05GHz — 24.25GHz

Field Strength: Not greater than 2.5V/m peak (0.25V/m average) at a distance of 3 m

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

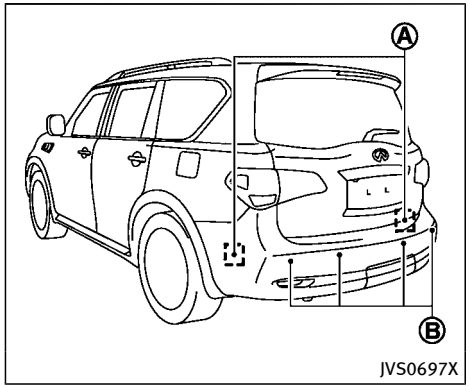
BACK-UP COLLISION INTERVENTION (BCI) (if so equipped)

WARNING

Failure to follow the warnings and instructions for proper use of the BCI system could result in serious injury or death.

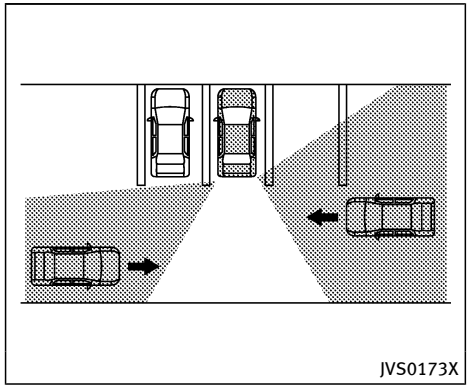
- **The BCI system is not a replacement for proper driving procedure, is not designed to prevent contact with vehicles or objects and does not provide full brake power. When backing out of parking spaces, always use the inside and rear mirrors and turn and look in the direction you will move. Never rely solely on the BCI system.**
- **There is a limitation to the detection capability of the radar or the sonar. Using the BCI system under some road, ground, traffic or weather conditions could lead to improper system operation. Always rely on your own operation to avoid accidents.**

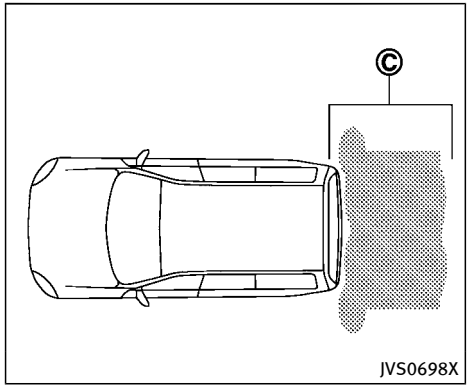
The BCI system can help alert the driver of an approaching vehicle or objects behind the vehicle when the driver is backing out of a parking space.



JVS0697X

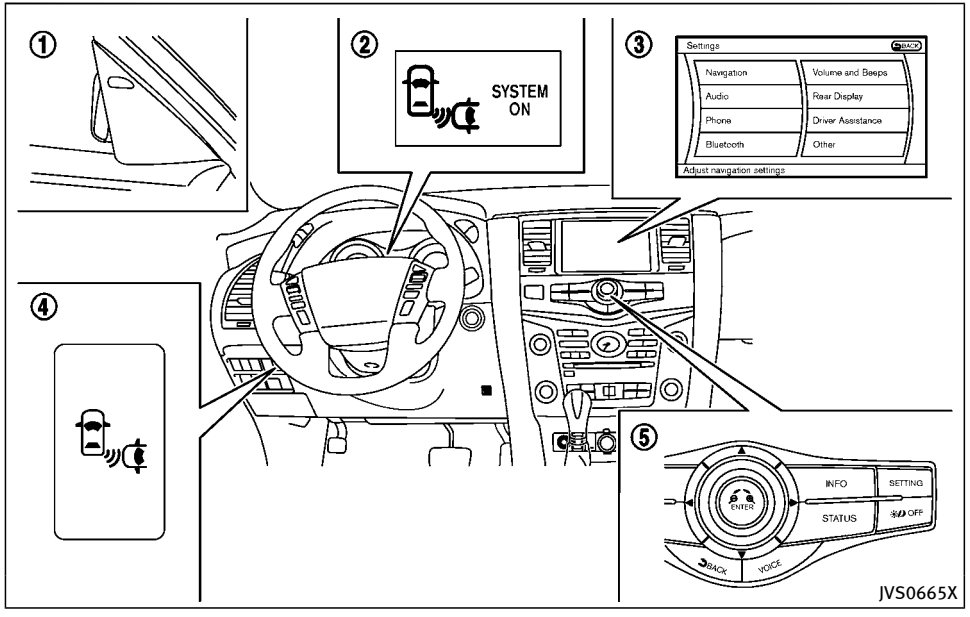
The BCI system uses radar sensors Ⓐ installed on both sides near the rear bumper to detect an approaching vehicle and sonar sensors Ⓑ to detect objects in the rear.


JVS0173X

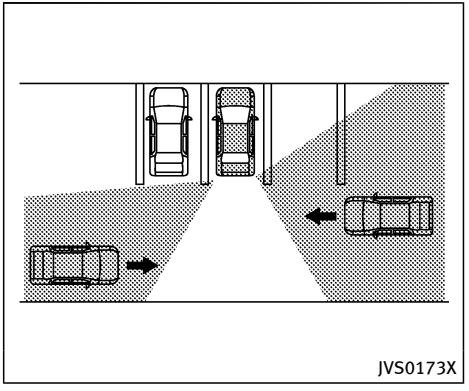


JVS0698X

The radar sensors Ⓐ detect an approaching vehicle from up to approximately 49 ft (15 m) away. The sonar sensors Ⓑ detect stationary objects behind the vehicle up to approximately 4.9 ft (1.5 m). Refer to the illustration for approximate zone coverage areas Ⓒ.



① Side indicator light
② BCI system indicator
③ Center display
④ BCI switch
⑤ Center multi-function control panel

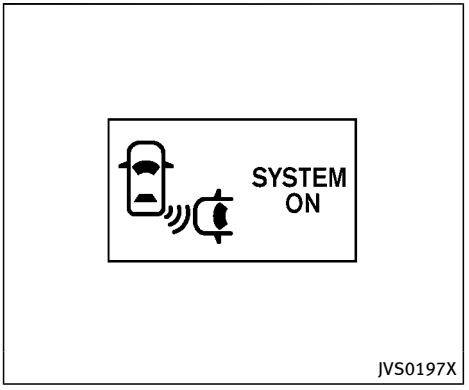


BCI SYSTEM OPERATION

When the shift lever is in the R (Reverse) position and the vehicle speed is less than approximately 5 MPH (8 km/h), the BCI system operates.

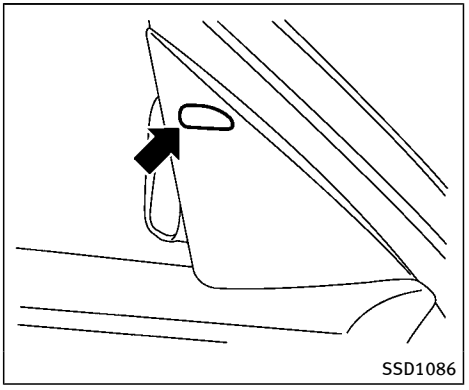
If the radar detects a vehicle approaching from the side or the sonar detects close stationary objects behind the vehicle, the system gives visual and audible warnings. If the driver does not apply the brakes, the system automatically applies the brake for a moment when the vehicle is moving backwards. After the automatic brake application, the driver must depress the brake pedal to maintain brake pressure. If

the driver's foot is on the accelerator pedal, the system pushes the accelerator upward before applying the brake. If you continue to accelerate, the system will not engage the brake.

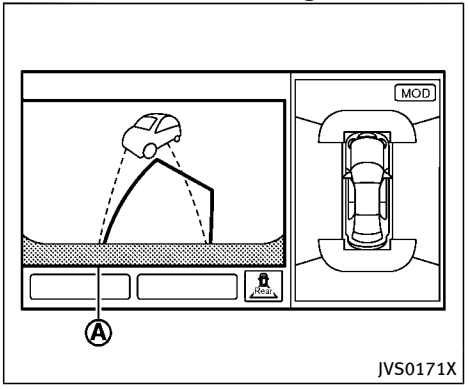


BCI ON indicator

When the shift lever is placed in the R (Reverse) position, the BCI ON indicator appears in the vehicle information display.



Side indicator light



Center display

If the radar detects an approaching vehicle from the side, the system chimes (once), the side indicator light on the side of the approaching vehicle flashes and a yellow rectangular frame Ⓐ appears on the center display.

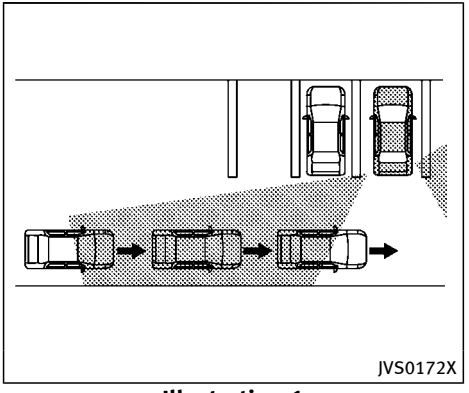


Illustration 1

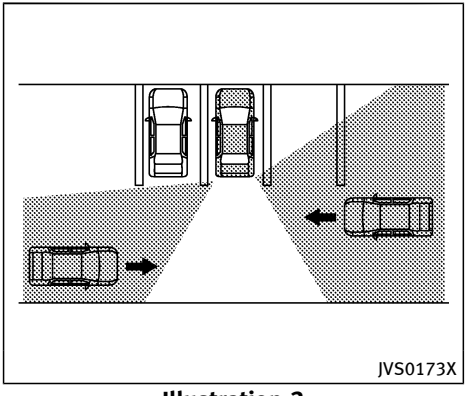
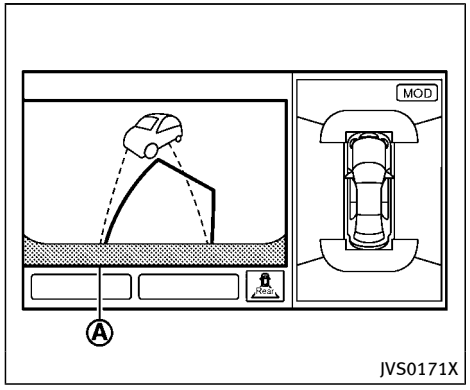


Illustration 2

NOTE:

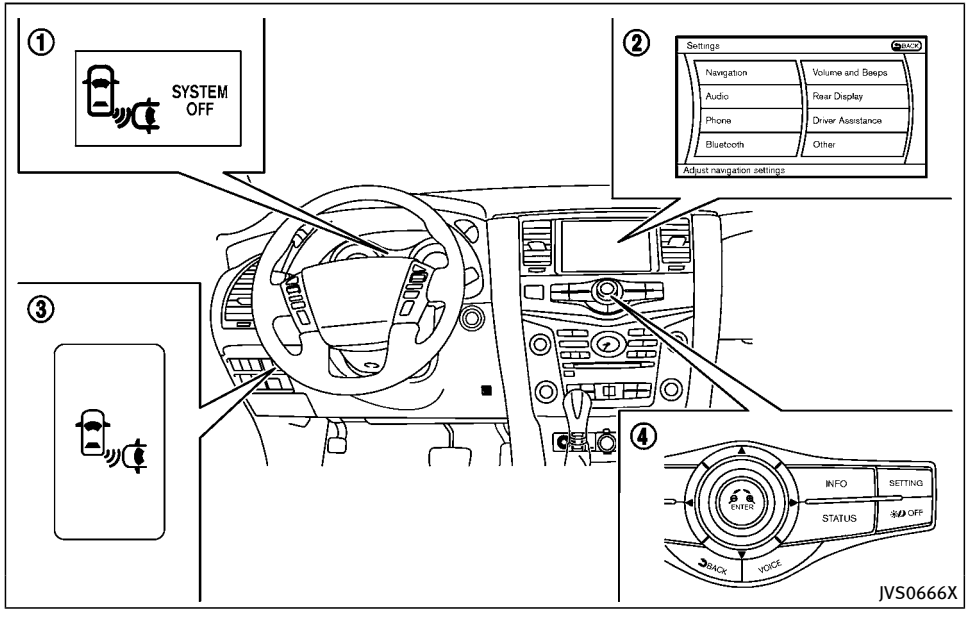
- **In the case of several vehicles approaching in a row (illustration 1) or from the opposite direction (illustration 2), a chime may not be sounded by the BCI system after the first vehicle passes the sensors.**
- **The sonar system chime indicating there is an object behind the vehicle has a higher priority than the BCI chimes (once) indicating an approaching vehicle. If the sonar system detects an object behind the vehicle and the BCI system detects an approaching vehicle at the same time, the following indications are provided:**
 - **— The sonar system chime sounds**
 - **— The side indicator light on the side of the approaching vehicle flashes, and**
 - **— A yellow rectangular frame appears in the display.**



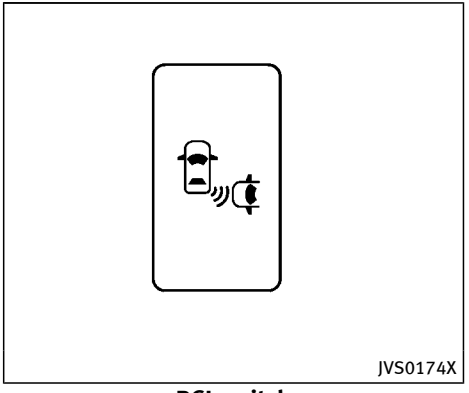
If an approaching vehicle or object behind the vehicle is detected when your vehicle is backing up, a red frame Ⓐ will appear on the display and the system will chime three times. Then, the brakes will be applied momentarily. After the automatic brake application, the driver must depress the brake pedal to maintain brake pressure.

If the driver's foot is on the accelerator pedal, the system moves the accelerator pedal upward before the braking is applied. However, if you continue to accelerate, the system will not engage the brakes.

The BCI system does not operate if the object is very close to the bumper.



① BCI system indicator
② Center display
③ BCI switch
④ Center multi-function control panel

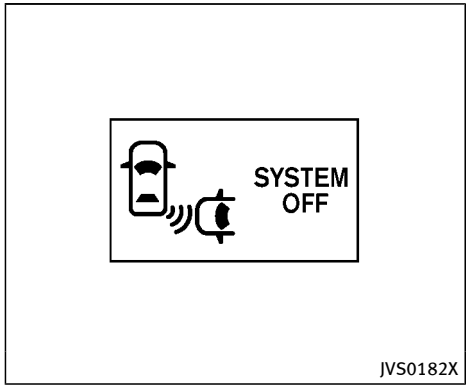


BCI switch

TURNING THE BCI SYSTEM ON/OFF

The BCI system automatically turns on every time the engine is started.

The BCI system can be turned off temporarily by pushing the BCI switch.

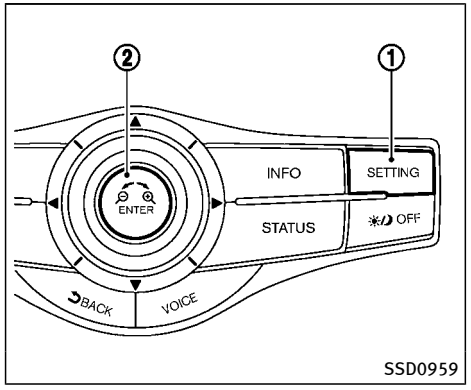


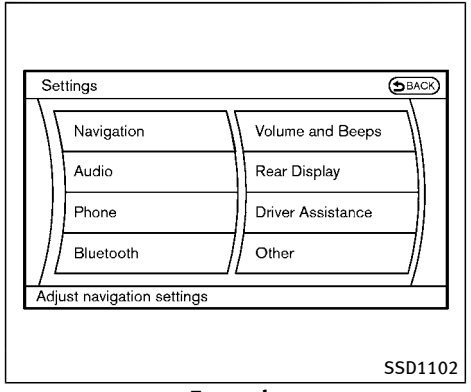
BCI OFF indicator

The BCI OFF indicator appears on the vehicle information display. When the shift lever is placed in the R (Reverse) position again, the BCI system is turned on.

HOW TO ENABLE/DISABLE THE BCI SYSTEM

The BCI system can be turned off permanently using the center display.

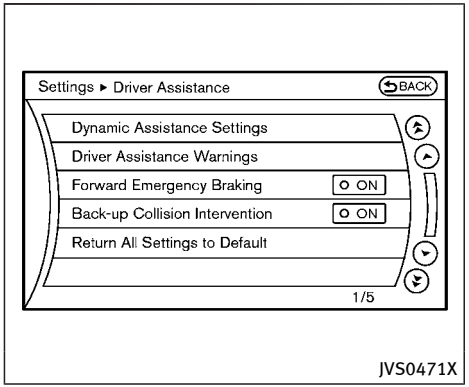




Example

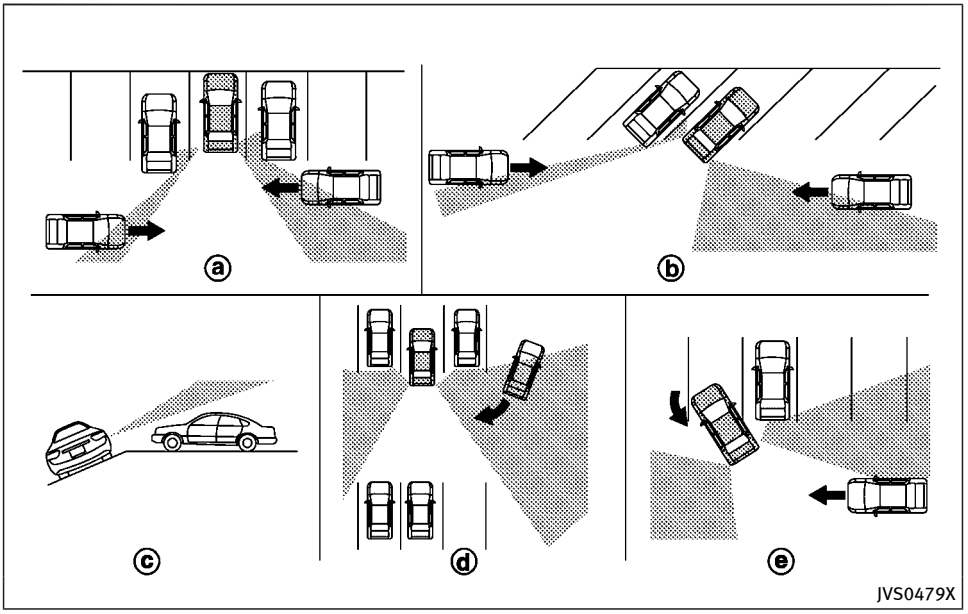
Perform the following steps to enable/disable the BCI system.

1. Push the SETTING button ① and highlight the “Driver Assistance” key on the display using the INFINITI controller. Then push the ENTER button ②.



JVS0471X

2. Highlight the “Back-up Collision Intervention” key, select ON (enabled) or OFF (disabled) and push the ENTER button ②.



JVS0479X

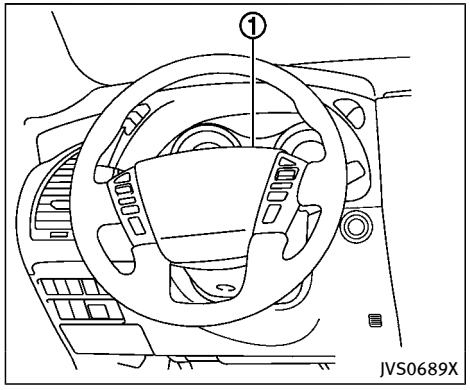
BCI SYSTEM LIMITATIONS

WARNING

Listed below are the system limitations for the BCI system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **Always check your surroundings and turn to check what is behind you before backing up.**

- The radar sensors detect approaching (moving) vehicles. The radar sensors cannot detect every object such as:
 - — Pedestrians, bicycles, animals or child operated toy vehicles
 - — A vehicle that passing at speeds greater than approximately 15 MPH (24 km/h)
- The radar sensors may not detect approaching vehicles in certain situations:
 - — Illustration a. When a vehicle parked next to you obstructs the beam of the radar sensor.
 - — Illustration b. When the vehicle is parked in an angled parking space.
 - — Illustration c. When the vehicle is parked on inclined ground.
 - — Illustration d. When an approaching vehicle turns into your vehicle's parking lot aisle.
 - — Illustration e. When the angle formed by your vehicle and approaching vehicle is small.
- The following conditions may reduce the ability of the radar sensors to detect other vehicles:
 - — Severe weather
 - — Road spray
 - — Ice/frost/dirt build up on the vehicle
- Do not attach stickers (including transparent material), install accessories or apply additional paint near the radar sensors. These conditions may reduce the ability of the radar sensors to detect other vehicles.
- The sonar sensors detect stationary objects behind the vehicle. The sonar sensor may not detect:
 - — Small or moving objects
 - — Wedge-shaped objects
 - — Object close to the bumper (less than approximately 1 ft (30 cm))
 - — Thin objects such as rope, wire and chain, etc.
- The brake engagement by the BCI system is not as effective on a slope as it is on flat ground. When on a steep slope the system may not function properly.
- Do not use the BCI system under the following conditions because the system may not function properly.
 - — When driving with a tire that is not within normal tire conditions (for example, tire wear, low tire pressure, installation of spare tire, tire chains, non-standard wheels).
 - — When the vehicle is equipped with non-original brake parts or suspension parts.
 - — When towing a trailer or other vehicle.
- Excessive noise (for example, audio system volume, open vehicle window) will interfere with the chime sound, and it may not be heard.



① Vehicle information display

SYSTEM TEMPORARILY UNAVAILABLE

Under the following conditions, a chime will sound and “BCI NOT AVAILABLE” warning will appear in the vehicle information display ①, and the BCI system will be turned off automatically.

- If the vehicle is parked in direct sunlight under high temperature conditions (over approximately 104°F (40°C)).
- When side radar blockage is detected.

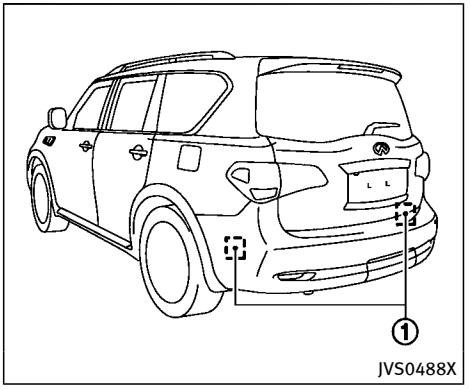
Turn off the BCI system and turn it on again when the above conditions no longer exist.

SYSTEM MALFUNCTION

If the BCI system malfunctions, it will turn off automatically, a chime will sound and “BCI MALFUNCTION” warning will appear in the vehicle information display ①.

Action to take

Stop the vehicle in a safe location and place the shift lever in the P (Park) position. Turn the engine off and restart the engine. If the warning message continues to appear, have the system checked. It is recommended you visit an INFINITI retailer for this service.



SYSTEM MAINTENANCE

The two radar sensors ① for the BCI system are located near the rear bumper. Always keep the area near the radar sensors clean.

The radar sensors may be blocked by temporary ambient conditions such as splashing water, mist or fog.

The blocked condition may also be caused by objects such as ice, frost or dirt obstructing the radar sensors.

Check for and remove objects obstructing the area around the radar sensors.

Do not attach stickers (including transpar-

ent material), install accessories or apply additional paint near the radar sensors.

Do not strike or damage the area around the radar sensors.

It is recommended you visit an INFINITI retailer if the area around the radar sensors is damaged due to a collision.

Radio frequency statement

This device complies with part 15 of the FCC Rules and RSS-310 of Industry Canada.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Frequency of operation: 24.05GHz — 24.25GHz

Field Strength: Not greater than 2.5V/m peak (0.25V/m average) at a distance of 3 m

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

PRECAUTIONS ON CRUISE CONTROL

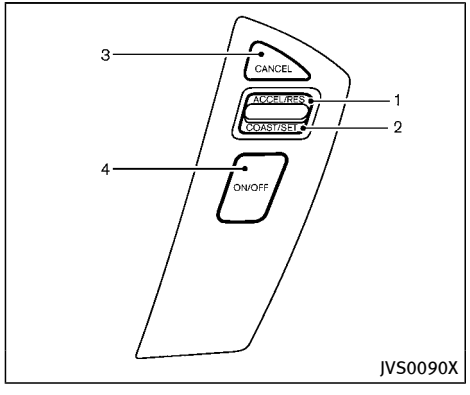
- If the cruise control system malfunctions, it will cancel automatically. The CRUISE indicator light on the meter panel will then blink to warn the driver.
- If the engine coolant temperature becomes excessively high, the cruise control system will be canceled automatically.
- If the CRUISE indicator light blinks, turn the cruise control main switch off and have the system checked. It is recommended you visit an INFINITI retailer for this service.
- The CRUISE indicator light may sometimes blink when the cruise control main switch is turned ON while pushing the ACCELERATE/RESUME, COAST/SET or CANCEL switch. To properly set the cruise control system, perform the steps below in the order indicated.

WARNING

Do not use the cruise control when driving under the following conditions:

- **when it is not possible to keep the vehicle at a set speed**
- **in heavy traffic or in traffic that varies in speed**
- **on winding or hilly roads**
- **on slippery roads (rain, snow, ice, etc.)**
- **in very windy areas**

Doing so could cause a loss of vehicle control and result in an accident.



1. ACCELERATE/RESUME switch
2. COAST/SET switch
3. CANCEL switch
4. Cruise control MAIN switch

CRUISE CONTROL OPERATIONS

The cruise control allows driving at a speed between 25 to 90 MPH (40 to 144 km/h) without keeping your foot on the accelerator pedal.

To turn on the cruise control, push the MAIN switch on. The CRUISE indicator will come on.

To set cruising speed, accelerate your vehicle to the desired speed, push the COAST/SET switch and release it. Take your foot off the accelerator pedal. Your vehicle will maintain the set speed.

- **To pass another vehicle,** depress the accelerator pedal. When you release the pedal, the vehicle will return to the previously set speed.
- The vehicle may not maintain the set speed on winding or hilly roads. If this happens, drive without the cruise control.

To cancel the preset speed, follow any of these methods:

1. Push the CANCEL switch.
2. Tap the brake pedal.
3. Move the shift lever to the N (Neutral) position.
4. Turn the MAIN switch off. The CRUISE indicator light will turn off.

- If you depress the brake pedal while pushing the ACCELERATE/RESUME or COAST/SET switch and reset at the cruising speed, the cruise control will disengage. Turn the MAIN switch off once and then turn it on again.
- The cruise control will automatically cancel if the vehicle slows more than 8 MPH (13 km/h) below the set speed.
- If you move the shift lever to N (Neutral) position, the cruise control will be canceled.

To reset at a faster cruising speed, use one of the following methods:

- Depress the accelerator pedal. When the vehicle attains the desired speed, push and release the COAST/SET switch.
- Push and hold the ACCELERATE/RESUME switch. When the vehicle attains the speed you desire, release the switch.
- Push, then quickly release the ACCELERATE/RESUME switch. Each time you do this, the set speed will increase by about 1 MPH (1.6 km/h).

To reset at a slower cruising speed, use one of the following methods:

- Lightly tap the brake pedal. When the vehicle attains the desired speed, push the COAST/SET switch and release it.
- Push and hold the COAST/SET switch. Release the switch when the vehicle slows down to the desired speed.
- Push, then quickly release the COAST/SET switch. Each time you do this, the set speed will decrease by about 1 MPH

(1.6 km/h).

To resume the preset speed, push and release the ACCELERATE/RESUME switch. The vehicle will resume the last set cruising speed when the vehicle speed is over 25 MPH (40 km/h).

WARNING

Failure to follow the warnings and instructions for proper use of the ICC system could result in serious injury or death.

- **ICC is not a collision avoidance or warning device. For highway use only and it is not intended for congested areas or city driving. Failure to apply the brakes could result in an accident.**
- **Always observe posted speed limits and do not set the speed over them.**
- **Always drive carefully and attentively when using either cruise control mode. Read and understand the Owner's Manual thoroughly before using the cruise control. To avoid serious injury or death, do not rely on the system to prevent accidents or to control the vehicle's speed in emergency situations. Do not use cruise control except in appropriate road and traffic conditions.**
- **In the conventional (fixed speed) cruise control mode, a warning chime will not sound to warn you if you are too close to the vehicle ahead. Pay special attention to the distance between your vehicle and the vehicle ahead of you or a collision could occur.**

The ICC system maintains a selected distance from the vehicle in front of you within the speed range of 0 to 90 MPH (0 to 144 km/h) up to the set speed. The set speed can be selected by the driver between 20 to 90 MPH (32 to 144 km/h).

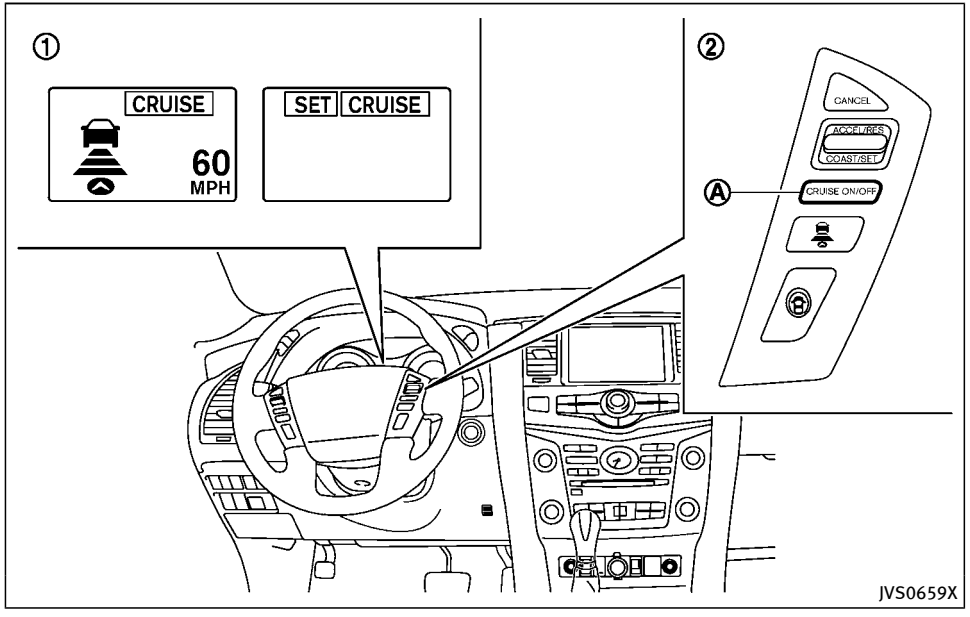
The vehicle travels at a set speed when the road ahead is clear.

The ICC system can be set to one of two cruise control modes.

- Vehicle-to-vehicle distance control mode:

 For maintaining a selected distance between your vehicle and the vehicle in front of you up to the preset speed.
- Conventional (fixed speed) cruise control mode:

 For cruising at a preset speed.



① Displays and indicators
② ICC switches
Ⓐ MAIN (ON·OFF) switch

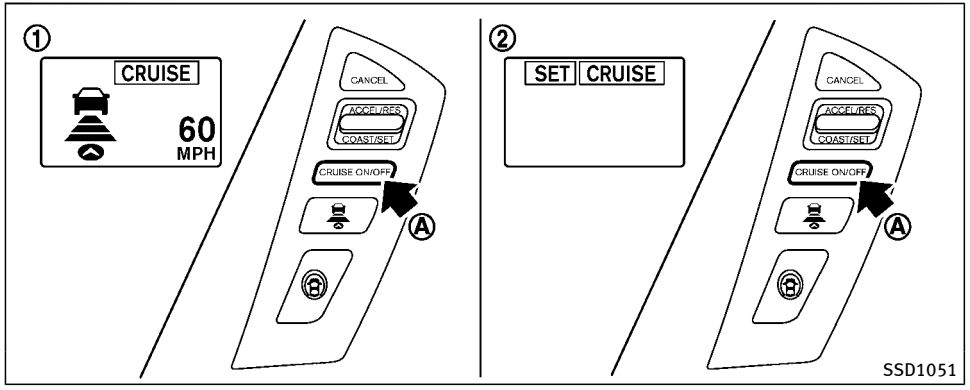
Push the MAIN switch Ⓐ to choose the cruise control mode between the vehicle-to-vehicle distance control mode and the conventional (fixed speed) cruise control mode.

Once a control mode is activated, it cannot be changed to the other cruise control mode. To change the mode, push the MAIN switch Ⓐ once to turn the system off. Then push the MAIN switch Ⓐ again to turn the system back on and select the desired cruise control mode.

Always confirm the setting in the ICC system display.

For the vehicle-to-vehicle distance control mode, see “Vehicle-to-vehicle distance control mode” (P.5-71).

For the conventional (fixed speed) cruise control mode, see “Conventional (fixed speed) cruise control mode” (P.5-87).



HOW TO SELECT THE CRUISE CONTROL MODE

Selecting vehicle-to-vehicle distance control mode

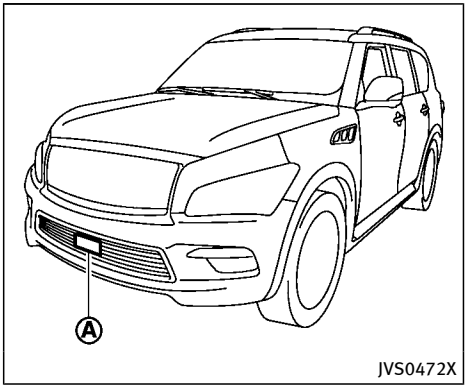
To choose the vehicle-to-vehicle distance control mode ①, quickly push and release the MAIN switch Ⓐ.

Selecting the conventional (fixed speed) cruise control mode

To choose the conventional (fixed speed) cruise control mode ②, push and hold the MAIN switch Ⓐ for longer than approximately 1.5 seconds. See “Conventional (fixed speed) cruise control mode” (P.5-87).

VEHICLE-TO-VEHICLE DISTANCE CONTROL MODE

In the vehicle-to-vehicle distance control mode, the ICC system automatically maintains a selected distance from the vehicle traveling in front of you according to that vehicle’s speed (up to the set speed), or at the set speed when the road ahead is clear.



The system is intended to enhance the operation of the vehicle when following a vehicle traveling in the same lane and direction.

If the radar sensor Ⓐ detects a slower moving vehicle ahead, the system will reduce the vehicle speed so that your vehicle follows the vehicle in front at the selected distance.

The system automatically controls the throttle and applies the brakes (up to approximately 40% of vehicle braking power) if necessary.

The detection range of the sensor is approximately 650 ft (200 m) ahead.

Vehicle-to-vehicle distance control mode operation

The vehicle-to-vehicle distance control mode is designed to maintain a selected distance and reduce the speed to match the slower vehicle ahead; the system will decelerate the vehicle as necessary and if the vehicle ahead comes to a stop, the vehicle decelerates to a standstill. However, the ICC system can only apply up to approximately 40% of the vehicle's total braking power. This system should only be used when traffic conditions allow vehicle speeds to remain fairly constant or when vehicle speeds change gradually. If a vehicle moves into the traveling lane ahead or if a vehicle traveling ahead rapidly decelerates, the distance between vehicles may become closer because the ICC system cannot decelerate the vehicle quickly enough. If this occurs, the ICC system will sound a warning chime and blink the system display to notify the driver to take necessary action.

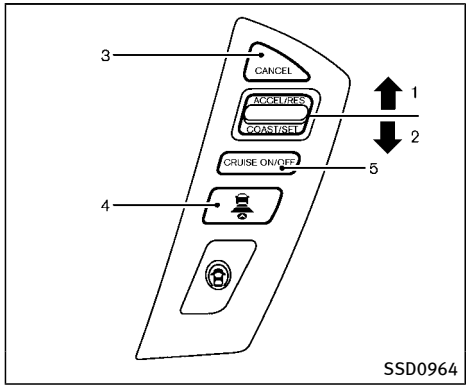
The system will cancel and a warning chime will sound if the speed is below approximately 15 MPH (24 km/h) and a vehicle is not detected ahead. The system will also disengage when the vehicle goes above the maximum set speed.

See "Approach warning" (P.5-79).

The following items are controlled in the vehicle-to-vehicle distance control mode:

- When there are no vehicles traveling ahead, the vehicle-to-vehicle distance control mode maintains the speed set by the driver. The set speed range is between approximately 20 and 90 MPH (32 and 144 km/h).
- When there is a vehicle traveling ahead, the vehicle-to-vehicle distance control mode adjusts the speed to maintain the distance, selected by driver, from the vehicle ahead. The adjusting speed range is up to the set speed. If the vehicle ahead comes to a stop, the vehicle decelerates to a standstill within the limitations of the system. The system will cancel once it judges a standstill with a warning chime.
- When the vehicle traveling ahead has moved out from its lane of travel, the vehicle-to-vehicle distance control mode accelerates and maintains vehicle speed up to the set speed.

The ICC system does not control vehicle speed or warn you when you approach stationary and slow moving vehicles. You must pay attention to vehicle operation to maintain proper distance from vehicles ahead when approaching toll gates or traffic congestion.



Vehicle-to-vehicle distance control mode switches

The system is operated by a MAIN switch and four control switches, all mounted on the steering wheel.

1. ACCELERATE/RESUME switch:

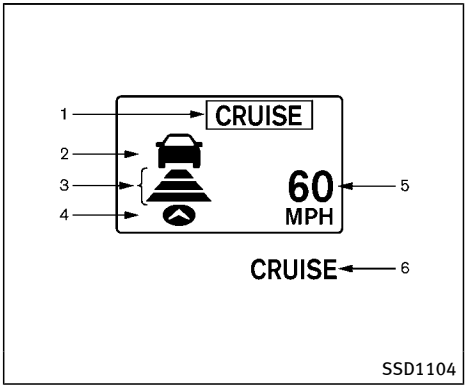
 Resumes set speed or increases speed incrementally.
2. COAST/SET switch:

 Sets desired cruise speed, reduces speed incrementally.
3. CANCEL switch:

 Deactivates the system without erasing the set speed.
4. DISTANCE switch:

 Changes the vehicle's following distance:
 - Long
 - Middle
 - Short
5. MAIN switch:

 Master switch to activate the system



Vehicle-to-vehicle distance control mode display and indicators

The display is located between the speedometer and tachometer.

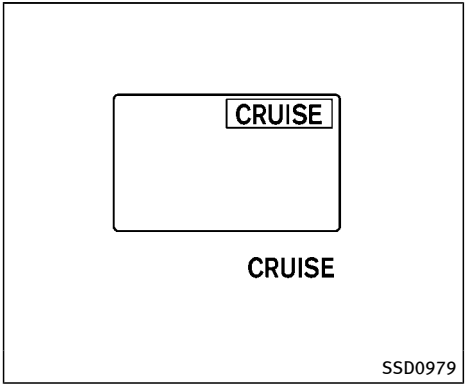
1. MAIN switch indicator:

 Indicates that the MAIN switch is ON.
2. Vehicle ahead detection indicator:

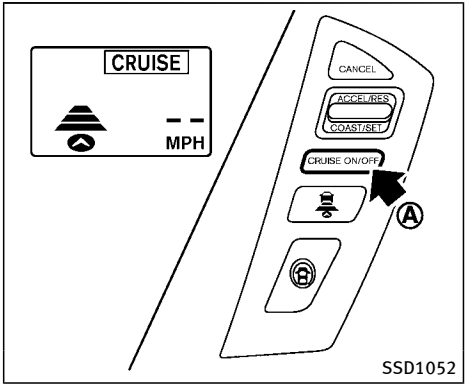
 Indicates whether it detects a vehicle in front of you.
3. Set distance indicator:

 Displays the selected distance between vehicles set with the DISTANCE switch.

4. Indicates your vehicle
5. Set vehicle speed indicator:
 Indicates the set vehicle speed.
 For Canadian models, the speed is displayed in km/h.
6. ICC system warning light (orange):
 The light comes on if there is a malfunction in the ICC system.

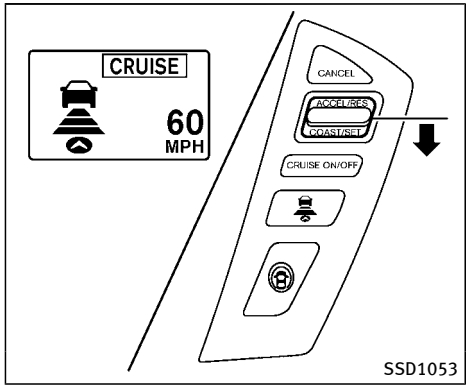


When the ignition switch is pushed to the ON position, the indicators come on as illustrated to check for a burned-out bulb, and it turns off when the engine is started.



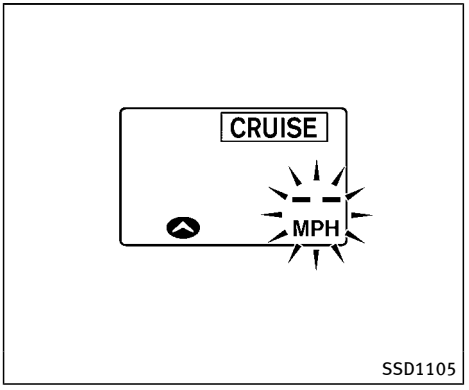
Operating vehicle-to-vehicle distance control mode

To turn on the cruise control, quickly push and release the MAIN switch Ⓐ on. The MAIN switch indicator, set distance indicator and set vehicle speed indicator come on and in a standby state for setting.



SSD1053

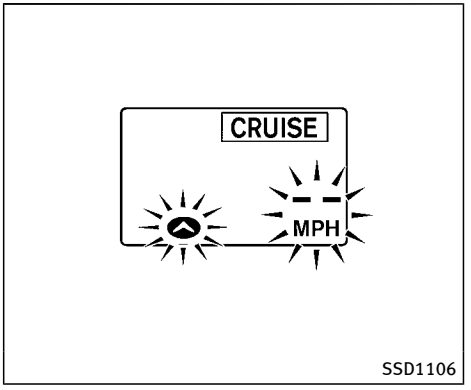
To set cruising speed, accelerate your vehicle to the desired speed, push the COAST/SET switch and release it. (Vehicle ahead detection indicator, set distance indicator and set vehicle speed indicator come on.) Take your foot off the accelerator pedal. Your vehicle will maintain the set speed.



SSD1105

When the COAST/SET switch is pushed under the following conditions, the system cannot be set and the ICC indicators will blink for approximately 2 seconds:

- When traveling below 20 MPH (32 km/h) and the vehicle ahead is not detected
- When the shift lever is not in the D (Drive) or manual shift mode
- When the parking brake is applied
- When the brakes are operated by the driver



SSD1106

When the COAST/SET switch is pushed under the following conditions, the system cannot be set.

A warning chime will sound and the ICC indicators will blink.

- When the SNOW mode is pushed (SNOW mode switch) (To use the ICC system, turn off the SNOW mode switch, push the MAIN switch to turn off the ICC and reset the ICC switch by pushing the MAIN switch again.)

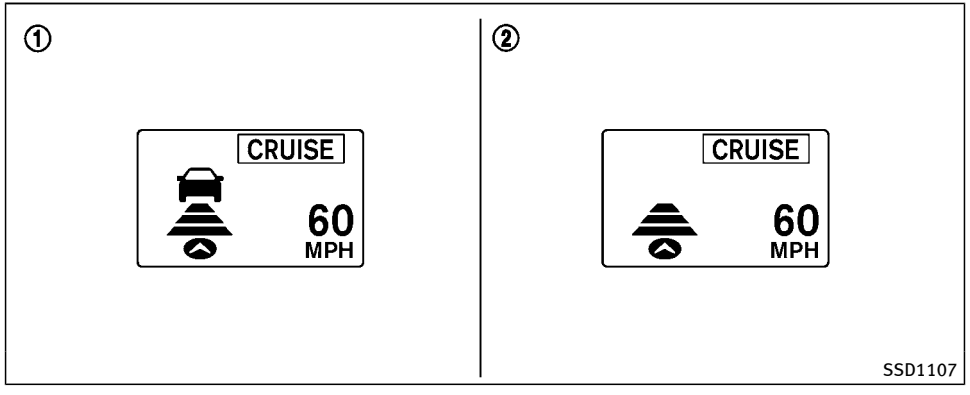
 For details about the SNOW mode switch, see “SNOW mode” (P.5-134).
- When the 4WD shift switch is in the 4H or 4L position. (To use the ICC system,

place the 4WD shift switch in the AUTO position, push the MAIN switch to turn off the ICC system and reset the ICC switch by pushing the MAIN switch again (for 4WD models).

For details about the 4WD shift switch, see “INFINITI all-mode 4WD®” (P.5-124).

- When the VDC system is off (To use the ICC system, turn on the VDC system. Push the MAIN switch to turn off the ICC system and reset the ICC switch by pushing the MAIN switch again.)

 For details about the VDC system, see “Vehicle Dynamic Control (VDC) system” (P.5-137).
- When ABS or VDC (including the traction control system) is operating
- When a wheel is slipping (To use the ICC system, make sure the wheels are no longer slipping. Push the MAIN switch to turn off the ICC, and reset the ICC system by pushing the MAIN switch again.)



① System set display with vehicle ahead
② System set display without vehicle ahead

System operation

The driver sets the desired vehicle speed based on the road conditions. The ICC system maintains the set vehicle speed, similar to standard cruise control, as long as no vehicle is detected in the lane ahead.

The ICC system displays the set speed.

Vehicle detected ahead:

When a vehicle is detected in the lane ahead, the ICC system decelerates the vehicle by controlling the throttle and applying the brakes to match the speed of a slower vehicle ahead. The system then controls the vehicle speed based on the speed of the vehicle ahead to maintain the driver selected distance.

The stoplights of the vehicle come on when braking is performed by the ICC system.

When the brake operates, a noise may be heard and/or vibration may be felt. This is not a malfunction.

When a vehicle ahead is detected, the vehicle ahead detection indicator comes

on. The ICC system will also display the set speed and selected distance.

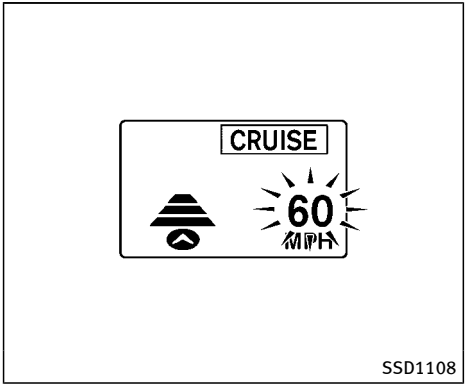
Vehicle ahead not detected:

When a vehicle is no longer detected ahead, the ICC system gradually accelerates your vehicle to resume the previously set vehicle speed. The ICC system then maintains the set speed.

When a vehicle is no longer detected the vehicle ahead detection indicator turns off.

If a vehicle ahead appears during acceleration to the set vehicle speed or any time the ICC system is in operation, the system controls the distance to that vehicle.

When a vehicle is no longer detected under approximately 15 MPH (24 km/h), the system will be canceled.



When passing another vehicle, the set speed indicator will flash when the vehicle speed exceeds the set speed. The vehicle detect indicator will turn off when the area ahead of the vehicle is open. When the pedal is released, the vehicle will return to the previously set speed.

Even though your vehicle speed is set in the ICC system, you can depress the accelerator pedal when it is necessary to accelerate your vehicle rapidly.

How to change set vehicle speed

To cancel the preset speed, use any of these methods:

- Push the CANCEL switch. The set vehicle speed indicator will go out.
- Tap the brake pedal. The set vehicle speed indicator will go out.
- Turn the MAIN switch off. Both the MAIN switch indicator and set vehicle speed indicator will go out.

To reset at a faster cruising speed, use one of the following methods:

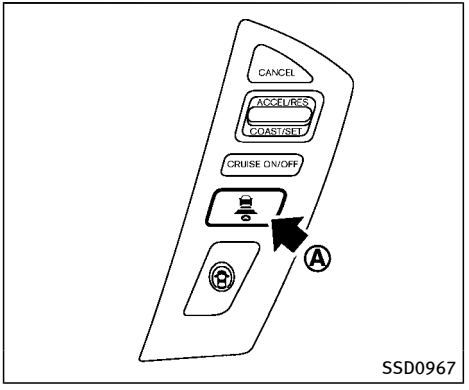
- Depress the accelerator pedal. When the vehicle attains the desired speed, push and release the COAST/SET switch.
- Push and hold the ACCELERATE/RESUME switch. The set vehicle speed will increase by approximately 5 MPH (5 km/h for Canada).
- Push, then quickly release the ACCELERATE/RESUME switch. Each time you do this, the set speed will increase by approximately 1 MPH (1 km/h for Canada).

To reset at a slower cruising speed, use one of the following methods:

- Lightly tap the brake pedal. When the vehicle attains the desired speed, push the COAST/SET switch and release it.

- Push and hold the COAST/SET switch. The set vehicle speed will decrease by approximately 5 MPH (5 km/h for Canada).
- Push, then quickly release the COAST/SET switch. Each time you do this, the set speed will decrease by approximately 1 MPH (1 km/h for Canada).

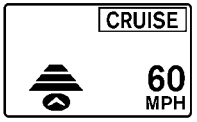
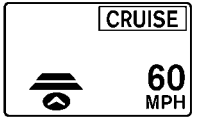
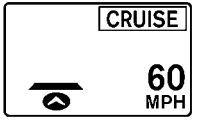
To resume the preset speed, push and release the ACCELERATE/RESUME switch. The vehicle will resume the last set cruising speed when the vehicle speed is over 20 MPH (32 km/h).



How to change set distance to vehicle ahead

The distance to the vehicle ahead can be selected at any time depending on the traffic conditions.

Each time the DISTANCE switch Ⓐ is pushed, the set distance will change to long, middle, short and back to long again in that sequence.

Distance	Display	Approximate distance at 60 MPH (100 km/h) [ft (m)]
Long		200 (60)
Middle		150 (45)
Short		90 (30)

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- The distance to the vehicle ahead will change according to the vehicle speed. The higher the vehicle speed, the longer the distance.
- If the engine is stopped, the set distance becomes “long”. (Each time the engine is started, the initial setting becomes “long”.)

Approach warning

If your vehicle comes closer to the vehicle ahead due to rapid deceleration of that vehicle or if another vehicle cuts in, the system warns the driver with the chime and ICC system display. Decelerate by depressing the brake pedal to maintain a safe vehicle distance if:

- The chime sounds.
- The vehicle ahead detection and set distance indicator blink.

The warning chime may not sound in some cases when there is a short distance between vehicles. Some examples are:

- When the vehicles are traveling at the same speed and the distance between vehicles is not changing
- When the vehicle ahead is traveling faster and the distance between vehicles is increasing
- When a vehicle cuts in near your vehicle

The warning chime will not sound when:

- Your vehicle approaches other vehicles that are parked or moving slowly.
- The accelerator pedal is depressed, overriding the system.

NOTE:

The approach warning chime may sound and the system display may blink when the radar sensor detects objects on the side of the vehicle or on the side of the road. This may cause the ICC system to

decelerate or accelerate the vehicle. The radar sensor may detect these objects when the vehicle is driven on winding roads, narrow roads, hilly roads or when entering or exiting a curve. In these cases you will have to manually control the proper distance ahead of your vehicle.

Also, the sensor sensitivity can be affected by vehicle operation (steering maneuver or driving position in the lane) or traffic or vehicle condition (for example, if a vehicle is being driven with some damage).

Automatic cancellation

A chime sounds under the following conditions and the control is automatically canceled.

- When the vehicle ahead is not detected and your vehicle is traveling below the speed of 15 MPH (24 km/h)
- When the system judges the vehicle is at standstill
- When the shift lever is not in the D (Drive) or manual shift mode
- When the parking brake is applied
- When the SNOW mode switch is pushed on.
- When the 4WD shift switch is in the 4H or 4L position (for 4WD models)
- When the VDC system is turned off
- When ABS or VDC (including the traction control system) operates
- When distance measurement becomes impaired due to adhesion of dirt or obstruction to the sensor
- When a wheel slips
- When the radar signal is temporarily interrupted

Vehicle-to-vehicle distance control mode limitations

WARNING

Listed below are the system limitations for the ICC system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **The system is primarily intended for use on straight, dry, open roads with light traffic. It is not advisable to use the system in city traffic or congested areas.**
- **This system will not adapt automatically to road conditions. This system should be used in evenly flowing traffic. Do not use the system on roads with sharp curves, or on icy roads, in heavy rain or in fog.**
- **As there is a performance limit to the distance control function, never rely solely on the ICC system. This system does not correct careless, inattentive or absent-minded driving, or overcome poor visibility in rain, fog, or other bad weather. Decelerate the vehicle speed by depressing the brake pedal, depending on the distance to the vehicle ahead and the surrounding circumstances in order to maintain a safe distance between vehicles.**
- **If the vehicle ahead comes to a stop, the vehicle decelerates to a standstill within the limitations of the system. The system will cancel once it judges that the vehicle has come to a standstill and sound a warning chime. To prevent the vehicle from moving, the driver must depress the brake pedal.**
- **Always pay attention to the operation of the vehicle and be ready to manually control the proper following distance. The vehicle-to-vehicle distance control mode of the ICC system may not be able to maintain the selected distance between vehicles (following distance) or**

selected vehicle speed under some circumstances.

- **Normally when controlling the distance to a vehicle ahead, this system automatically accelerates or decelerates your vehicle according to the speed of the vehicle ahead. Depress the accelerator to properly accelerate your vehicle when acceleration is required for a lane change. Depress the brake pedal when deceleration is required to maintain a safe distance to the vehicle ahead due to its sudden braking or if a vehicle cuts in. Always stay alert when using the ICC system.**
- **The system may not detect the vehicle in front of you in certain road or weather conditions. To avoid accidents, never use the ICC system under the following conditions:**
 - **— On roads where the traffic is heavy or there are sharp curves**
 - **— On slippery road surfaces such as on ice or snow, etc.**
 - **— During bad weather (rain, fog, snow, etc.)**
 - **— When rain, snow or dirt adhere to the system sensor**
 - **— On steep downhill roads (the vehicle may go beyond the set vehicle speed and frequent braking may result in overheating the brakes)**
 - **— On repeated uphill and downhill roads**
 - **— When traffic conditions make it difficult to keep a proper distance between vehicles because of frequent acceleration or deceleration**
- **Do not use the ICC system if you are towing a trailer. The system may not detect a vehicle ahead.**
- **In some road or traffic conditions, a vehicle or object can unexpectedly come into the sensor detection zone and cause automatic braking. You may need to control the distance from other vehicles using the accelerator pedal. Always stay alert and avoid using the ICC system when it is not recommended in this section.**

The radar sensor will not detect the following objects:

- Stationary and slow moving vehicles
- Pedestrians or objects in the roadway
- Oncoming vehicles in the same lane
- Motorcycles traveling offset in the travel lane

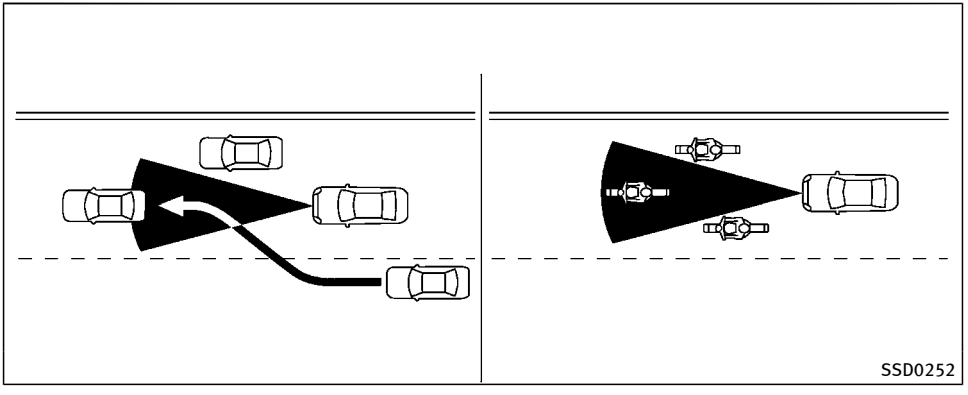
The sensor generally detects the signals returned from the vehicle ahead. Therefore, if the sensor cannot detect the reflection from the vehicle ahead, the ICC system may not maintain the selected distance.

The following are some conditions in which the sensor cannot detect the signals:

- When the snow or road spray from traveling vehicles reduces the sensor's visibility
- When excessively heavy baggage is loaded in the rear seat or the luggage area of your vehicle
- When your vehicle is towing a trailer, etc.

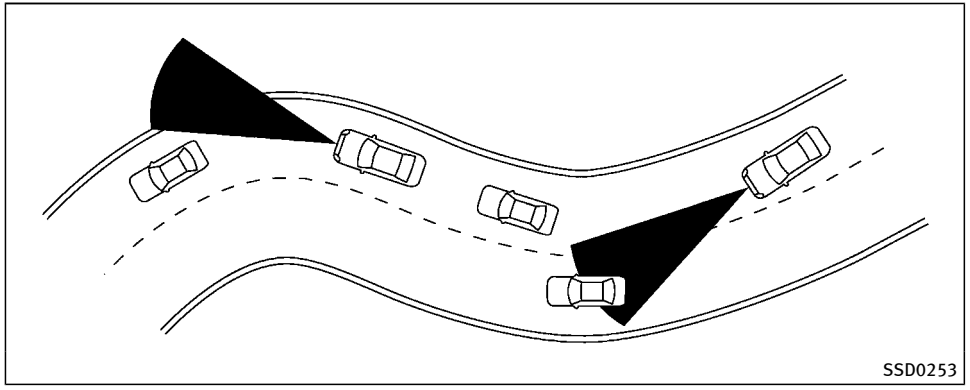
The ICC system is designed to automatically check the sensor's operation within the limitation of the system. When the sensor is covered with dirt or is obstructed, the system will automatically be canceled. If the sensor is covered with ice, a

transparent or translucent vinyl bag, etc., the ICC system may not detect them. In these instances, the vehicle-to-vehicle distance control mode may not cancel and may not be able to maintain the selected following distance from the vehicle ahead. Be sure to check and clean the sensor regularly.



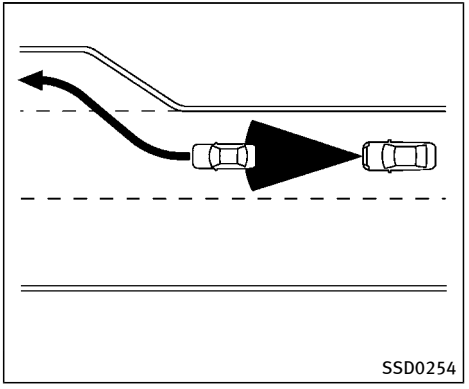
The detection zone of the ICC sensor is limited. A vehicle ahead must be in the detection zone for the vehicle-to-vehicle distance detection mode to maintain the selected distance from the vehicle ahead.

A vehicle ahead may move outside of the detection zone due to its position within the same lane of travel. Motorcycles may not be detected in the same lane ahead if they are traveling offset from the centerline of the lane. A vehicle that is entering the lane ahead may not be detected until the vehicle has completely moved into the lane. **If this occurs, the ICC system may warn you by blinking the system indicator and sounding the chime. The driver may have to manually control the proper distance away from vehicle traveling ahead.**



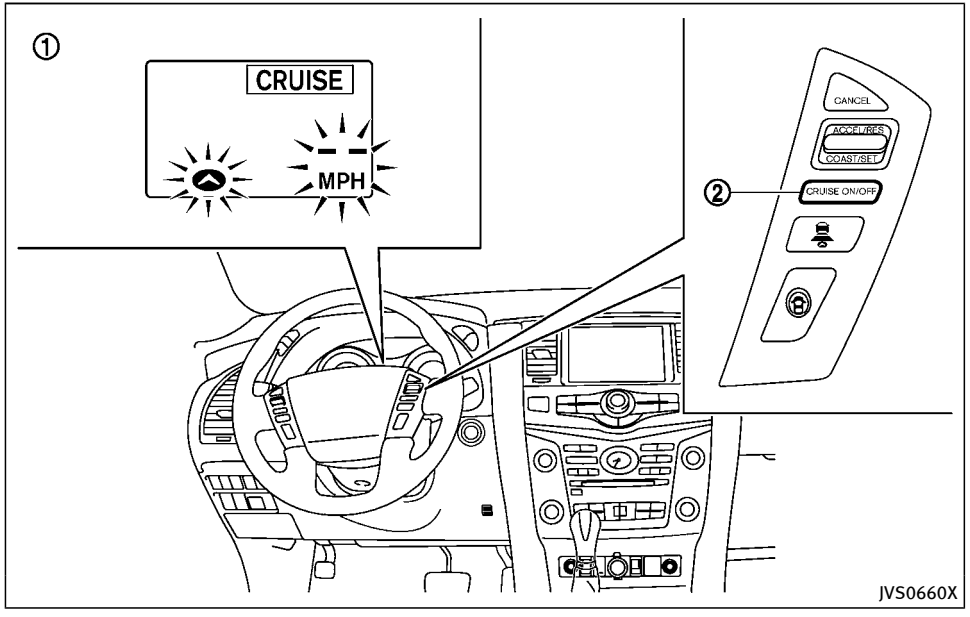
When driving on some roads, such as winding, hilly, curved, narrow roads, or roads which are under construction, the ICC sensor may detect vehicles in a different lane, or may temporarily not detect a vehicle traveling ahead. This may cause the ICC system to decelerate or accelerate the vehicle.

The detection of vehicles may also be affected by vehicle operation (steering maneuver or traveling position in the lane, etc.) or vehicle condition. **If this occurs, the ICC system may warn you by blinking the system indicator and sounding the chime unexpectedly. You will have to manually control the proper distance away from the vehicle traveling ahead.**

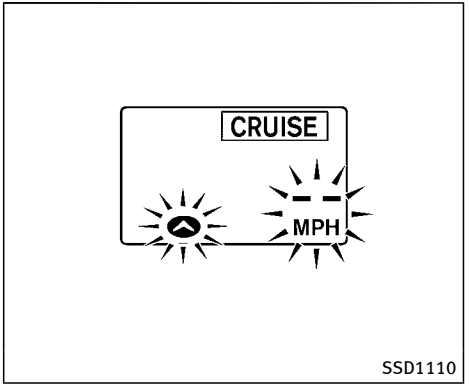


When driving on the freeway at a set speed and approaching a slower traveling vehicle ahead, the ICC system will adjust the speed to maintain the distance, selected by the driver, from the vehicle ahead. If the vehicle ahead changes lanes or exits the freeway, the ICC system will accelerate and maintain the speed up to the set speed. Pay attention to the driving operation to maintain control of the vehicle as it accelerates to the set speed.

The vehicle may not maintain the set speed on winding or hilly roads. If this occurs, you will have to manually control the vehicle speed.



① Warning light and display (example)
② MAIN (ON·OFF) switch



System temporarily unavailable

Condition A:

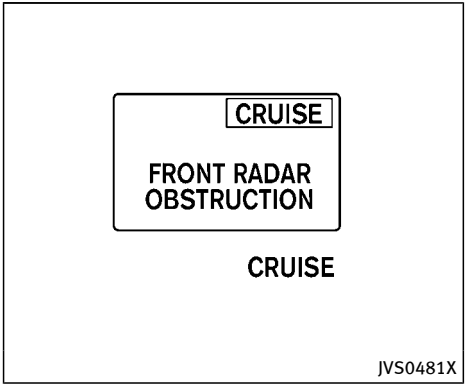
Under the following conditions, the ICC system is automatically canceled. The chime will sound and the system will not be able to be set.

- When the VDC is turned off
- When the ABS or VDC operates
- When a tire slips
- When the SNOW mode switch is pushed on
- When the 4WD shift switch is in the 4H or 4L position (for 4WD models)

- When the radar signal is temporarily interrupted

Action to take:

When the conditions listed above are no longer present, turn the system off using the MAIN switch ②. Turn the ICC system back on to use the system.



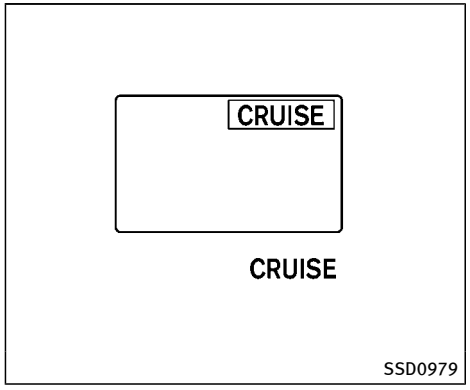
Condition B:

When the radar sensor area of the front bumper is covered with dirt or is obstructed, making it impossible to detect a vehicle ahead, the ICC system is automatically canceled.

The chime sounds and the ICC system warning light (orange) will come on and the “FRONT RADAR OBSTRUCTION” warning will appear.

Action to take:

If the warning light comes on, park the vehicle in a safe place, place the shift lever in the P (Park) position and turn the engine off. When the radar signal is temporarily interrupted, clean the sensor area of the front bumper and restart the engine. If the “FRONT RADAR OBSTRUCTION” warning continues to be displayed, have the ICC system checked. It is recommended you visit an INFINITI retailer for this service.



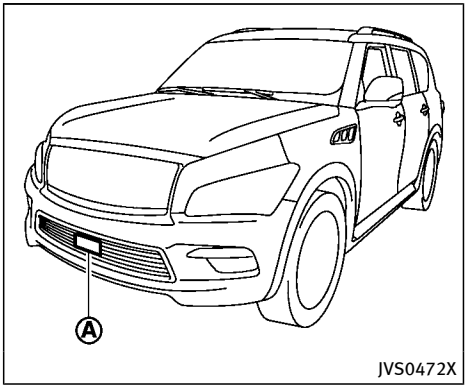
Condition C:

When the ICC system is not operating properly, the chime sounds and the ICC system warning light (orange) will come on.

Action to take:

If the warning light comes on, park the vehicle in a safe place. Turn the engine off, restart the engine, resume driving and set the ICC system again.

If it is not possible to set the system or the indicator stays on, it may indicate that the ICC system is malfunctioning. Although the vehicle is still driveable under normal conditions, have the vehicle checked. It is recommended you visit an INFINITI retailer for this service.



Sensor maintenance

The sensor for the ICC system Ⓐ is located below the front bumper.

To keep the ICC system operating properly, be sure to observe the following:

- Always keep the sensor area of the front bumper clean.
- Do not strike or damage the areas around the sensor.
- Do not cover or attach stickers or similar objects on the front bumper near the sensor area. This could cause failure or malfunction.

- Do not attach metallic objects near the sensor area (brush guard, etc.). This could cause failure or malfunction.
- Do not alter, remove or paint the front bumper. Before customizing or restoring the front bumper, it is recommended you contact an INFINITI retailer.

Radio frequency statement

For USA:

FCC ID: OAYARS3-B

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. **This device may not cause harmful interference, and**
2. **This device must accept any interference received, including interference that may cause undesired operation.**

FCC Warning

Changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For Canada:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

1. **This device may not cause interference, and**
2. **This device must accept any interference, including interference that may cause undesired operation of the device.**

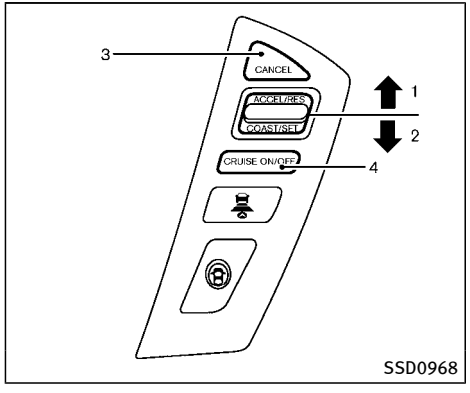
CONVENTIONAL (fixed speed) CRUISE CONTROL MODE

This mode allows driving at a speed between 25 to 90 MPH (40 to 144 km/h) without keeping your foot on the accelerator pedal.

WARNING

- **In the conventional (fixed speed) cruise control mode, a warning chime does not sound to warn you if you are too close to the vehicle ahead, as neither the presence of the vehicle ahead nor the vehicle-to-vehicle distance is detected.**
- **Pay special attention to the distance between your vehicle and the vehicle ahead of you or a collision could occur.**
- **Always confirm the setting in the ICC system display.**
- **Do not use the conventional (fixed speed) cruise control mode when driving under the following conditions.**
 - **— when it is not possible to keep the vehicle at a set speed**
 - **— in heavy traffic or in traffic that varies in speed**
 - **— on winding or hilly roads**
 - **— on slippery roads (rain, snow, ice, etc.)**
 - **— in very windy areas**

Doing so could cause a loss of vehicle control and result in an accident.



Conventional (fixed speed) cruise control switch

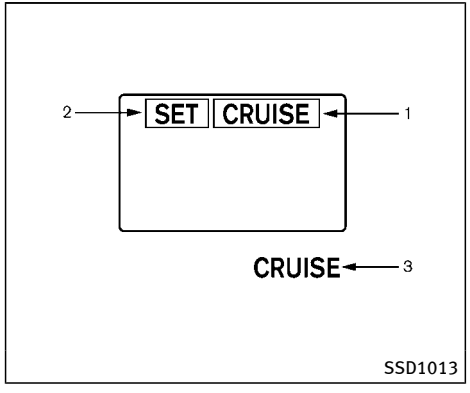
1. ACCELERATE/RESUME switch:

 Resumes set speed or increases speed incrementally.
2. COAST/SET switch:

 Sets the desired cruise speed, reduces speed incrementally.
3. CANCEL switch:

 Deactivates the system without erasing the set speed.
4. MAIN switch:

 Master switch to activate the system.



Conventional (fixed speed) cruise control mode display and indicators

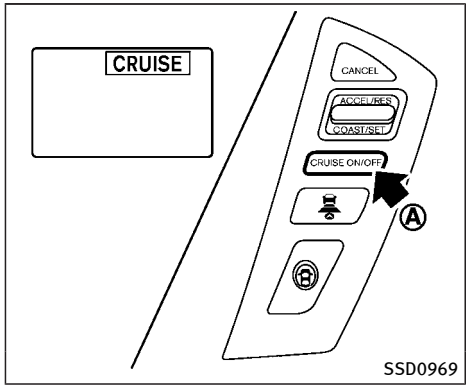
The display is on the vehicle information display located between the speedometer and tachometer.

1. MAIN switch indicator:

 Indicates that the MAIN switch is ON.
2. Cruise set switch indicator:

 Displays while the vehicle speed is controlled by the conventional (fixed speed) cruise control mode of the ICC system.
3. Cruise system warning light:

 Comes on if there is a malfunction in the cruise control system.



Operating conventional (fixed speed) cruise control mode

To turn on the conventional (fixed speed) cruise control mode, push and hold the MAIN switch Ⓐ for longer than about 1.5 seconds.

When pushing the MAIN switch on, the conventional (fixed speed) cruise control mode display and the MAIN switch indicator are displayed on the vehicle information display. After you hold the MAIN switch on for longer than about 1.5 seconds, the ICC system display goes out. The MAIN switch indicator stays lit. You can now set your desired cruising speed. Pushing the MAIN switch again will turn the system completely off.

When the ignition switch is pushed to the OFF position, the system is also automatically turned off.

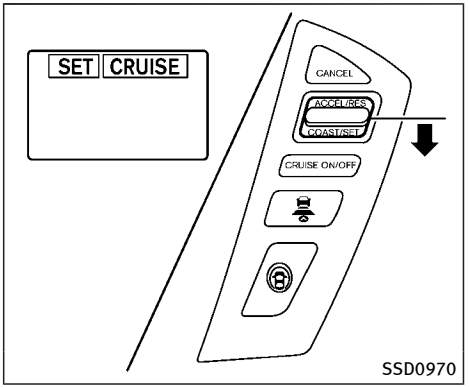
To use the ICC system again, quickly push and release the MAIN switch (vehicle-to-vehicle distance control mode) or push and hold it (conventional cruise control mode) again to turn it on.

When the Distance Control Assist (DCA) system is on, the conventional (fixed speed) cruise control mode cannot be turned on even though the MAIN switch is pushed and held.

To turn on the conventional (fixed speed) cruise control mode, turn off the DCA system. See “Distance Control Assist (DCA)” (P.5-91).

CAUTION

To avoid accidentally engaging cruise control, make sure to turn the MAIN switch off when not using the ICC system.



To set cruising speed, accelerate your vehicle to the desired speed, push the COAST/SET switch and release it. (The SET indicator will come on in the display.) Take your foot off the accelerator pedal. Your vehicle will maintain the set speed.

- **To pass another vehicle,** depress the accelerator pedal. When you release the pedal, the vehicle will return to the previously set speed.
- The vehicle may not maintain the set speed when going up or down steep hills. If this happens, manually maintain vehicle speed.

To cancel the preset speed, use any of the following methods:

1. Push the CANCEL switch. The SET indicator will turn off.
2. Tap the brake pedal. The SET indicator will turn off.
3. Turn the MAIN switch off. Both the MAIN switch indicator and SET indicator will turn off.

To reset at a faster cruising speed, use one of the following three methods:

1. Depress the accelerator pedal. When the vehicle attains the desired speed, push and release the COAST/SET switch.
2. Push and hold the ACCELERATE/RESUME set switch. When the vehicle attains the speed you desire, release the switch.
3. Push, then quickly release the ACCELERATE/RESUME switch. Each time you do this, the set speed will increase by about 1 MPH (1.6 km/h).

To reset at a slower cruising speed, use one of the following three methods:

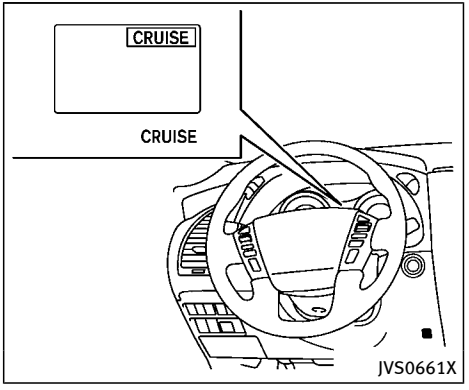
1. Lightly tap the brake pedal. When the vehicle attains the desired speed, push the COAST/SET switch and release it.
2. Push and hold the COAST/SET switch. Release the switch when the vehicle slows down to the desired speed.
3. Push, then quickly release the COAST/SET switch. Each time you do this, the set speed will decrease by about 1 MPH (1.6 km/h).

To resume the preset speed, push and release the ACCELERATE/RESUME switch. The vehicle will resume the last set cruising speed when the vehicle speed is over 25 MPH (40 km/h).

System temporarily unavailable

Under the following condition, a chime will sound and the system control is automatically canceled.

- When the vehicle slows down more than 8 MPH (13 km/h) below the set speed
- When the shift lever is shifted to the N (Neutral) position
- When the parking brake is applied
- When the VDC (including the traction control system) operates.
- When a wheel slips



Warning light

When the system is not operating properly, the chime sounds and the system warning light (orange) will come on.

Action to take:

If the warning light comes on, park the vehicle in a safe place. Turn the engine off, restart the engine, resume driving and then perform the setting again.

If it is not possible to set or the indicator stays on, it may indicate that the system is malfunctioning. Although the vehicle is still driveable under normal conditions, have the vehicle checked. It is recom-

mended you visit an INFINITI retailer for this service.

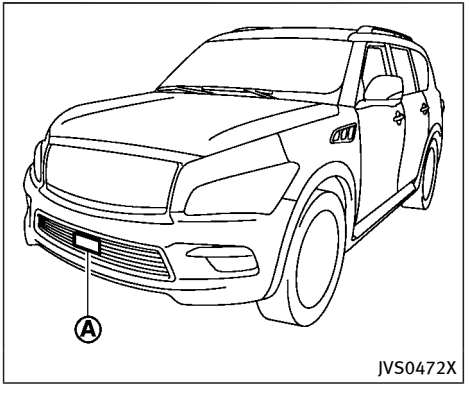
WARNING

Failure to follow the warnings and instructions for proper use of the DCA system could result in serious personal injury or death.

- Always drive carefully and attentively when using the DCA system. Read and understand the Owner's Manual thoroughly before using the DCA system. To avoid serious injury or death, do not rely on the system to prevent accidents or to control the vehicle's speed in emergency situations. Do not use the DCA system except in appropriate road and traffic conditions.
- This system is only an aid to assist the driver and is not a collision warning or avoidance device. It is the driver's responsibility to stay alert, drive safely and be in control of the vehicle at all times.
- As there is a performance limit to the distance control function, never rely solely on the DCA system. This system does not correct careless, inattentive or absent-minded driving, or overcome poor visibility in rain, fog, or other bad weather. Decelerate the vehicle speed by depressing the brake pedal, depending on the distance to the vehicle ahead and the surrounding circumstances in order to maintain a safe distance between vehicles.
- Always pay attention to the operation of the vehicle and be ready to manually decelerate to maintain the proper following distance. The DCA system may not be able to decelerate the vehicle under some circumstances.
- This system only brakes and moves the accelerator pedal upward to help assist the driver to maintain a following distance from the vehicle ahead. Acceleration should be operated by the driver.
- The DCA system does not control vehicle speed or warn you when you approach stationary and slow moving vehicles. You must pay attention to vehicle operation to maintain proper distance from vehicles ahead.
- The DCA system automatically decelerates your vehicle to help assist the driver to maintain a following distance from the vehicle ahead. Manually brake when deceleration is required to maintain a safe distance upon sudden brak-

ing by the vehicle ahead or when a vehicle suddenly appears in front of you. Always stay alert when using the DCA system.

- **If the vehicle ahead comes to a stop, the vehicle decelerates to a standstill within the limitations of the system. The system will cancel with a warning chime once it judges that the vehicle has come to a standstill. To prevent the vehicle from moving, the driver must depress the brake pedal.**

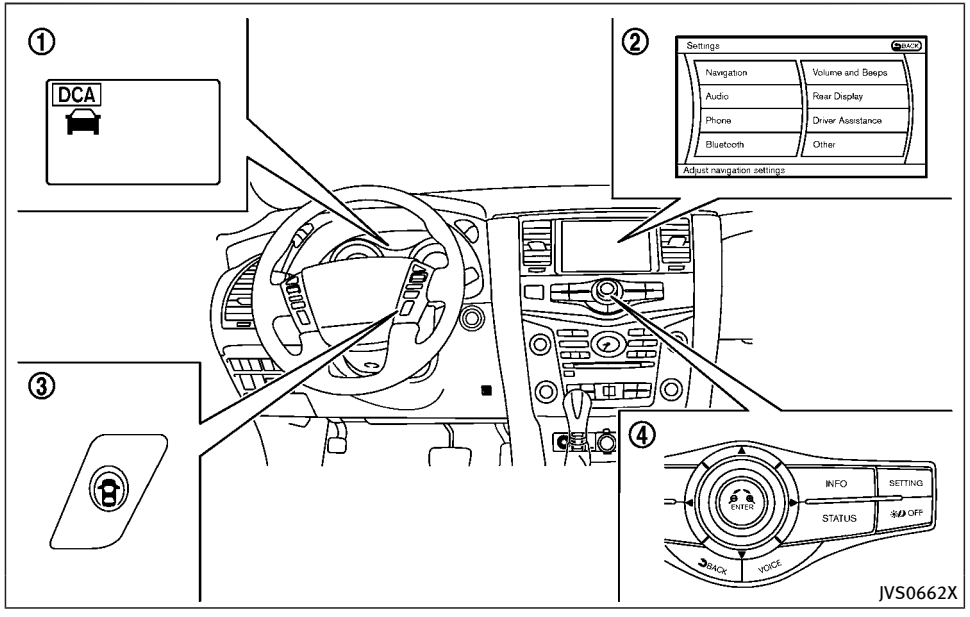


The DCA system is intended to assist the driver in keeping a following distance from the vehicle ahead traveling in the same lane and direction.

If the radar sensor Ⓐ detects a slower moving vehicle ahead, the system will reduce the vehicle speed to help assist the driver to maintain a following distance.

The system automatically controls the throttle and applies the brakes (up to approximately 40% of vehicle braking power) if necessary.

The detection range of the sensor is approximately 650 ft (200 m) ahead.



① Indicators (on the vehicle information display)
② Center display
③ Dynamic driver assistance switch
④ Center multi-function control panel

DCA SYSTEM OPERATION

WARNING

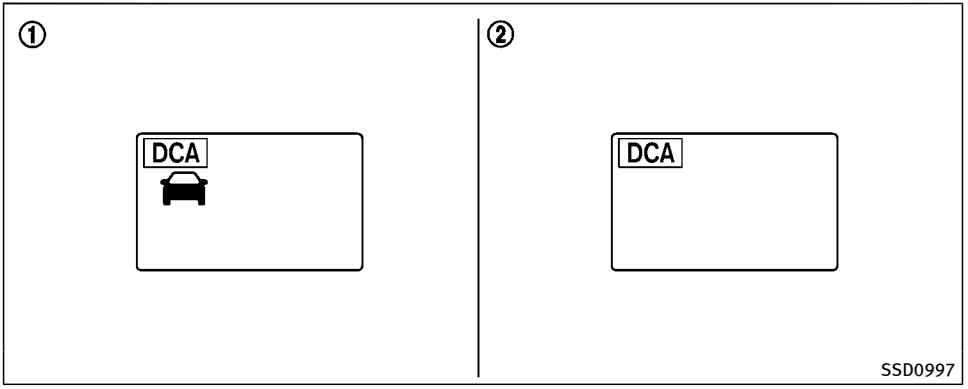
Failure to follow the warnings and instructions for proper use of the DCA system could result in serious personal injury or death.

- **When the vehicle ahead detection indicator light is not illuminated, system will not control the vehicle or warn the driver.**
- **Never place your foot under the brake pedal. Your foot may be caught when the system controls the brake.**
- **Depending on the position of the accelerator pedal, the system may not be able to assist the driver to release the accelerator pedal appropriately.**

The DCA system brakes and moves the accelerator pedal upward according to the distance from and the relative speed of the vehicle ahead to help assist the driver in maintaining a following distance. The system will decelerate as necessary and if the vehicle ahead comes to a stop, the vehicle decelerates to a standstill. However, the DCA system can only apply up to

approximately 40% of the vehicle's total braking power. If a vehicle moves into the traveling lane ahead or if a vehicle traveling ahead rapidly decelerates, the distance between vehicles may become closer because the DCA system cannot decelerate the vehicle quickly enough. If this occurs, the DCA system will sound a warning chime and blink the system display to notify the driver to take necessary action.

See "Approach warning" (P.5-95).



① System set display with a vehicle ahead

② System set display without a vehicle ahead

The DCA system helps assist the driver to keep a following distance to the vehicle ahead by braking and moving the accelerator pedal upward in the normal driving condition.

When a vehicle ahead is detected:

The vehicle ahead detection indicator comes on.

When the vehicle approaches a vehicle ahead:

- If the driver's foot is not on the accelerator pedal, the system activates the brakes to decelerate smoothly as necessary. If the vehicle ahead comes to a stop, the vehicle decelerates to a standstill within the limitations of the system.
- If the driver's foot is on the accelerator pedal, the system moves the accelerator pedal upward to assist the driver to release the accelerator pedal.

When brake operation by the driver is required:

The system alerts the driver by a warning chime and blinking the vehicle ahead detection indicator. If the driver's foot is on the accelerator pedal after the warning, the system moves the accelerator pedal upward to assist the driver to switch to the brake pedal.

NOTE:

- **The stop lights of the vehicle come on when braking is performed by the DCA system.**
- **When the brake operates, a noise may be heard and/or vibration may be felt. This is not a malfunction.**

Overriding the system:

The following driver's operation overrides the system operation.

- When the driver depresses the accelerator pedal even further while the system is moving the accelerator pedal upward, the DCA system control of the accelerator pedal is canceled.
- When the driver's foot is on the accelerator pedal, the brake control by the system is not operated.
- When the driver's foot is on the brake pedal, neither the brake control nor the alert by the system operates.
- When the Intelligent Cruise Control (ICC) system is set, the DCA system will be cancelled.

Approach warning

If your vehicle comes closer to the vehicle ahead due to rapid deceleration of that vehicle or if another vehicle cuts in, the system warns the driver with the chime and DCA system display. Decelerate by depressing the brake pedal to maintain a safe vehicle distance if:

- The chime sounds.
- The vehicle ahead detection indicator blinks.

The warning chime may not sound in some cases when there is a short distance between vehicles. Some examples are:

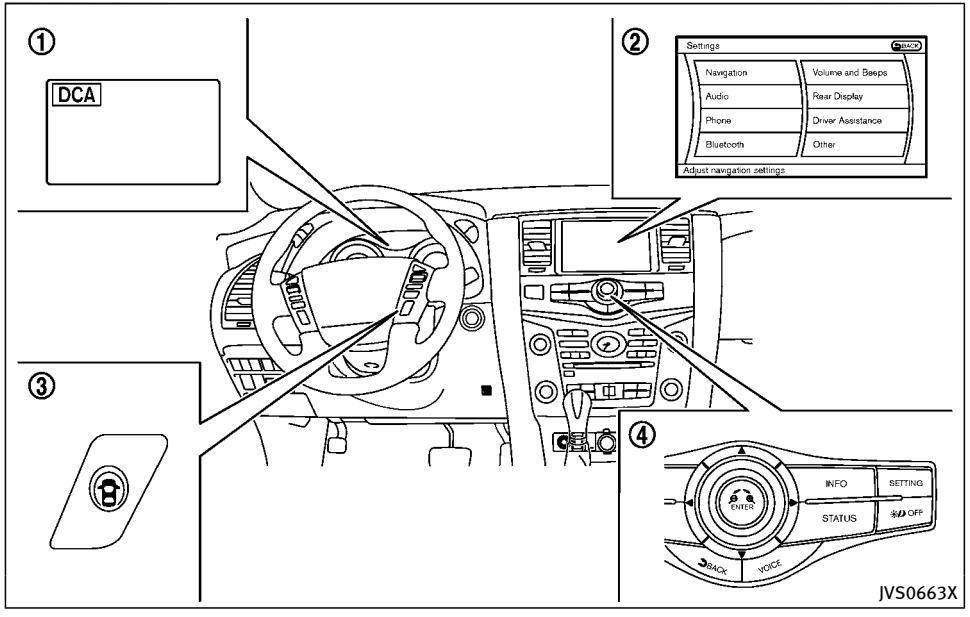
- When the vehicles are traveling at the same speed and the distance between vehicles is not changing
- When the vehicle ahead is traveling faster and the distance between vehicles is increasing
- When a vehicle cuts in near your vehicle

The warning chime will not sound when your vehicle approaches vehicles that are parked or moving slowly.

NOTE:

The approach warning chime may sound and the system display may blink when the radar sensor detects objects on the side of the vehicle or on the side of the road. This may cause the DCA system to decelerate or accelerate the vehicle. The radar sensor may detect these objects when the vehicle is driven on winding roads, narrow roads, hilly roads or when entering or exiting a curve. In these cases you will have to manually control the proper distance ahead of your vehicle.

Also, the sensor sensitivity can be affected by vehicle operation (steering maneuver or driving position in the lane) or traffic or vehicle condition (for example, if a vehicle is being driven with some damage).



① DCA system switch indicator (on the vehicle information display)
② Center display
③ Dynamic driver assistance switch
④ Center multi-function control panel

TURNING THE DCA SYSTEM ON/OFF

To turn on the DCA system, push the dynamic driver assistance switch ③ on the steering wheel after starting the engine. The DCA system switch indicator ① in the vehicle information display will appear. Push the dynamic driver assistance switch ③ again to turn off the DCA system. The DCA system switch indicator ① will turn off.

The system will start to operate after the vehicle speed is above approximately 3 MPH (5 km/h).

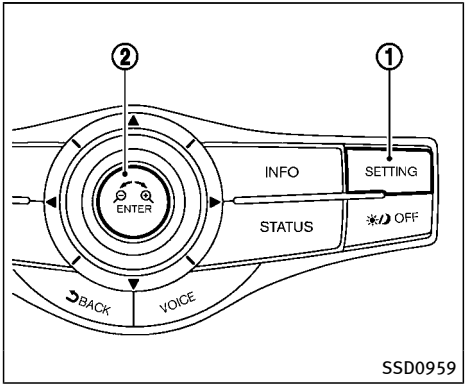
The dynamic driver assistance switch ③ is used for both the Lane Departure Prevention (LDP) and DCA systems. When the dynamic driver assistance switch ③ is pushed, the LDP system will also turn on or off simultaneously. The DCA system can be individually set to on or off on the center display ② and using the center multi-function control panel ④. If the system is set to off, the system will not turn on even if the dynamic driver assistance switch ③ is pushed to on. To set the system to on or off on the display, see “How to enable/disable the DCA system” (P.5-97).

When the Conventional (fixed speed) cruise control mode is operating, the DCA system

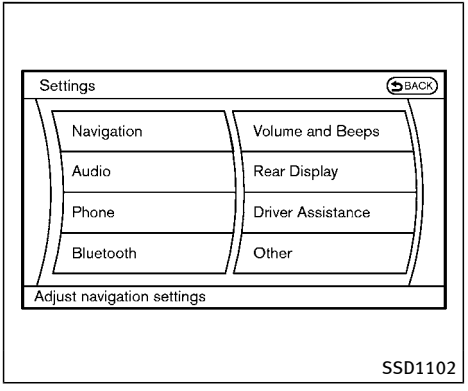
will not operate. (To use the DCA system, turn the Conventional (fixed speed) cruise control mode off, then push the dynamic driver assistance switch ③.)

For details about the Conventional (fixed speed) cruise control mode, see “Intelligent Cruise Control (ICC)” (P.5-69).

When the engine is turned off, the system is automatically turned off.



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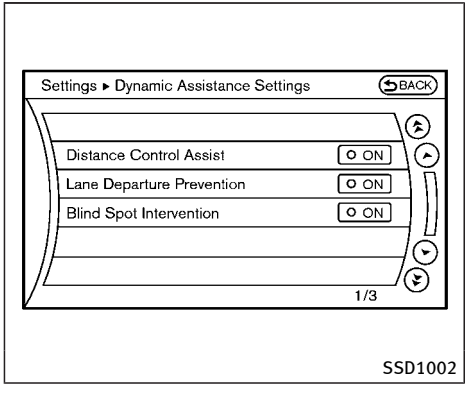


SSD1102

HOW TO ENABLE/DISABLE THE DCA SYSTEM

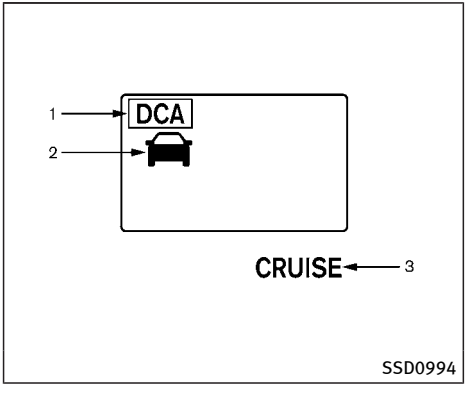
Perform the following steps to enable or disable the DCA system.

1. Push the SETTING button ① and highlight the “Driver Assistance” key on the display using the INFINITI controller. Then push the ENTER button ②.
2. Highlight the “Dynamic Assistance Settings” key, and push the ENTER button ②.



3. Highlight the “Distance Control Assist” key, select ON (enabled) or OFF (disabled) and push the ENTER button ②.

For the Lane Departure Prevention (LDP) and Blind Spot Intervention (BSI) systems, see “Lane Departure Warning (LDW)/Lane Departure Prevention (LDP) ” (P.5-23) and “Blind Spot Warning (BSW)” (P.5-33).



DCA SYSTEM DISPLAY AND INDICATORS

The display is located between the speedometer and tachometer.

1. DCA system switch indicator:

 Indicates that the dynamic driver assistance switch is ON.

2. Vehicle ahead detection indicator:

 Indicates whether it detects a vehicle in front of you.

3. DCA system warning light (orange):

 The light comes on if there is a malfunction in the DCA system.

DCA SYSTEM LIMITATIONS

WARNING

Listed below are the system limitations of the DCA system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **This system will not adapt automatically to road conditions. Do not use the system on roads with sharp curves, or on icy roads, in heavy rain or in fog.**
- **The DCA system will not apply brake control while the driver’s foot is on the accelerator pedal.**
- **As there is a performance limit to the distance control function, never rely solely on the DCA system. This system does not correct careless, inattentive or absent-minded driving, or overcome poor visibility in rain, fog, or other bad weather. Decelerate the vehicle speed by depressing the brake pedal, depending on the distance to the vehicle ahead and the surrounding circumstances in order to maintain a safe distance between vehicles.**

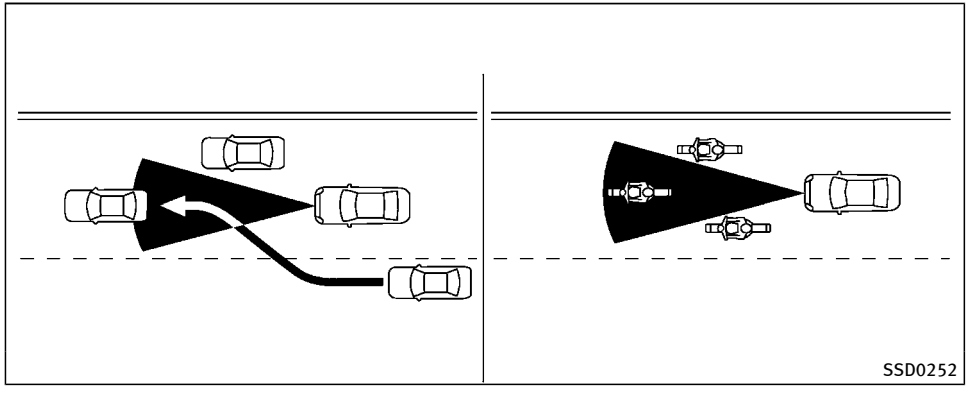
- **The system may not detect the vehicle in front of you in certain road or weather conditions. To avoid accidents, never use the DCA system under the following conditions:**
 - **— On roads with sharp curves**
 - **— On slippery road surfaces such as on ice or snow, etc.**
 - **— On off-road surfaces such as on sand or rock, etc.**
 - **— During bad weather (rain, fog, snow, etc.)**
 - **— When rain, snow or dirt adhere to the system sensor**
 - **— On steep downhill roads (frequent braking may result in overheating the brakes)**
 - **— On repeated uphill and downhill roads**
 - **— When towing a trailer or other vehicle**
- **In some road or traffic conditions, a vehicle or object can unexpectedly come into the sensor detection zone and cause automatic braking. You may need to control the distance from other vehicles using the accelerator pedal. Always stay alert and avoid using the DCA system when it is not recommended in this section.**

The radar sensor will not detect the following objects:

- Stationary and slow moving vehicles
- Pedestrians or objects in the roadway
- Oncoming vehicles in the same lane
- Motorcycles traveling offset in the travel lane

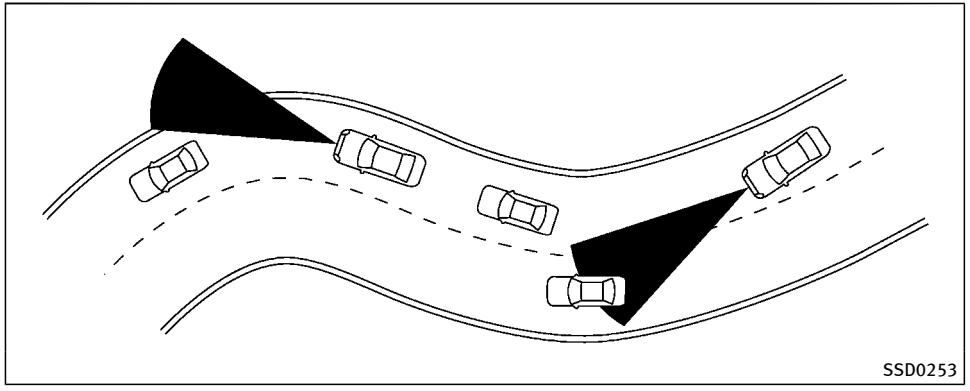
The following are some conditions in which the sensor cannot detect the signals:

- When the snow or road spray from traveling vehicles reduces the sensor's visibility
- When excessively heavy baggage is loaded in the rear seat or the luggage room of your vehicle



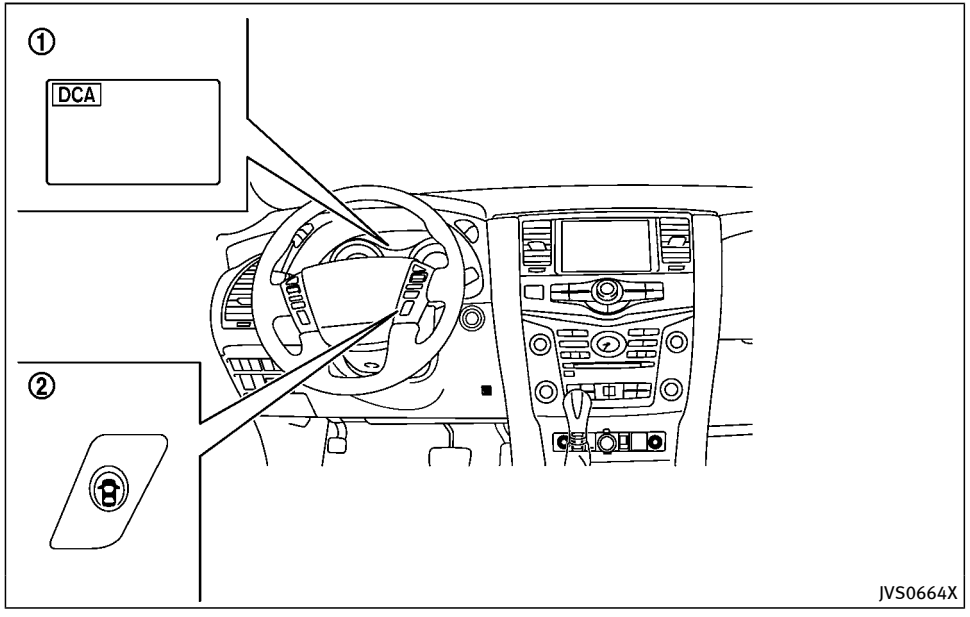
The detection zone of the sensor is limited. A vehicle ahead must be in the detection zone for the system to operate.

A vehicle ahead may move outside of the detection zone due to its position within the same lane of travel. Motorcycles may not be detected in the same lane ahead if they are traveling offset from the centerline of the lane. A vehicle that is entering the lane ahead may not be detected until the vehicle has completely moved into the lane. **If this occurs, the system may warn you by blinking the system indicator and sounding the chime. The driver may have to manually control the proper distance away from vehicle traveling ahead.**

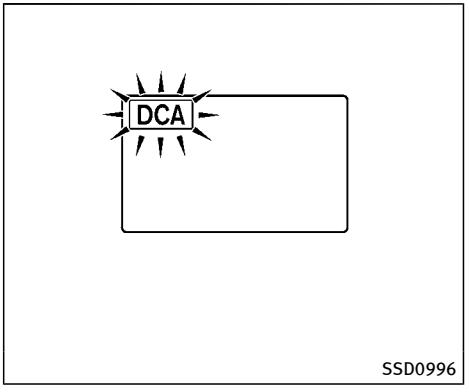


When driving on some roads, such as winding, hilly, curved, narrow roads, or roads which are under construction, the sensor may detect vehicles in a different lane, or may temporarily not detect a vehicle traveling ahead. This may cause the system to work inappropriately.

The detection of vehicles may also be affected by vehicle operation (steering maneuver or traveling position in the lane, etc.) or vehicle condition. **If this occurs, the system may warn you by blinking the system indicator and sounding the chime unexpectedly. You will have to manually control the proper distance away from the vehicle traveling ahead.**



① Warning light and indicators
② Dynamic driver assistance switch



SYSTEM TEMPORARILY UNAVAILABLE

Condition A:

Under the following conditions, the DCA system is automatically canceled. The chime will sound and the DCA system switch indicator will blink. The system will not be able to be set.

- When the VDC system is off (To use the DCA system, turn on the VDC, then push the dynamic driver assistance switch.)

 For details about the VDC system, see “Vehicle Dynamic Control (VDC) sys-

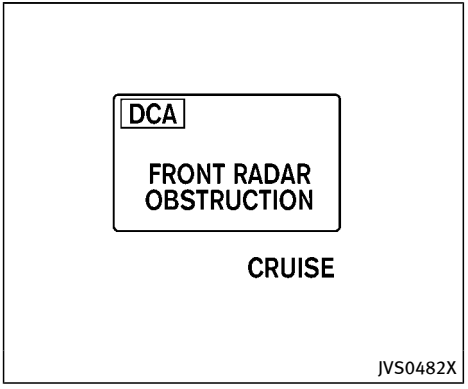
tem” (P.5-137).

- When the VDC or ABS (including the traction control system) operates
- When the SNOW mode switch is ON (To use the DCA system, turn off the SNOW mode switch, then turn on the dynamic driver assistance switch ②.)

 For details about the SNOW mode switch, see “SNOW mode switch” (P.2-51).
- When the 4WD shift switch is in the 4H or 4L position (for 4WD models)
- When the radar signal is temporarily interrupted

Action to take:

When the conditions listed above are no longer present, turn the system off with the dynamic driver assistance switch ②. Turn the DCA system back on to use the system.



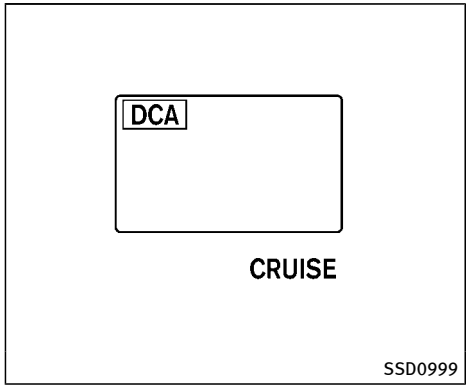
Condition B:

When the radar sensor area is covered with dirt or is obstructed, making it impossible to detect a vehicle ahead, the DCA system is automatically canceled.

The chime sounds and the DCA system warning light (orange) will come on and the “FRONT RADAR OBSTRUCTION” warning will appear.

Action to take:

If the warning light comes on, park the vehicle in a safe place, place the shift lever in the P (Park) position and turn the engine off. When the radar signal is temporarily interrupted, clean the sensor area and restart the engine. If the “FRONT RADAR OBSTRUCTION” warning continues to be displayed, have the DCA system checked. It is recommended you visit an INFINITI retailer for this service.



SYSTEM MALFUNCTION

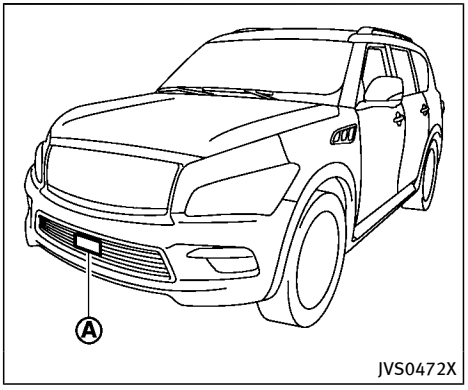
Condition:

When the DCA system is not operating properly, the chime sounds and the system warning light (“CRUISE” orange) will come on.

Action to take:

If the warning light comes on, park the vehicle in a safe place. Turn the engine off, restart the engine, and turn on the DCA system again.

If it is not possible to set the system or the indicator stays on, it may indicate that the system is malfunctioning. Although the vehicle is still driveable under normal conditions, have the vehicle checked. It is recommended you visit an INFINITI retailer for this service.



SENSOR MAINTENANCE

The sensor for the DCA system Ⓐ is located below the front bumper.

The DCA system is designed to automatically check the sensor’s operation. When the sensor is covered with dirt or is obstructed, the system will automatically be canceled. If the sensor is covered with ice, a transparent or translucent vinyl bag, etc., the DCA system may not detect them. In these instances, the DCA system may not be able to decelerate the vehicle properly. Be sure to check and clean the sensor regularly.

To keep the DCA system operating properly, be sure to observe the following:

- Always keep the sensor area of the front bumper clean.
- Do not strike or damage the areas around the sensor.
- Do not cover or attach stickers or similar objects on the front bumper near the sensor area. This could cause failure or malfunction.
- Do not attach metallic objects near the sensor area (brush guard, etc.). This could cause failure or malfunction.
- Do not alter, remove or paint the front bumper. Before customizing or restoring the front bumper, it is recommended you contact an INFINITI retailer.

Radio frequency statement

For USA:

FCC ID: OAYARS3-B

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. **This device may not cause harmful interference, and**
2. **This device must accept any interference received, including interference that may cause undesired operation.**

FCC Warning

Changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For Canada:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

1. **This device may not cause interference, and**
2. **This device must accept any interference, including interference that may cause undesired operation of the device.**

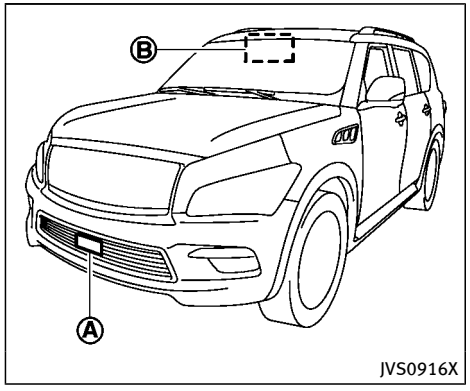
FORWARD EMERGENCY BRAKING (FEB) WITH PEDESTRIAN DETECTION (if so equipped)

WARNING

Failure to follow the warnings and instructions for proper use of the FEB with pedestrian detection system could result in serious injury or death.

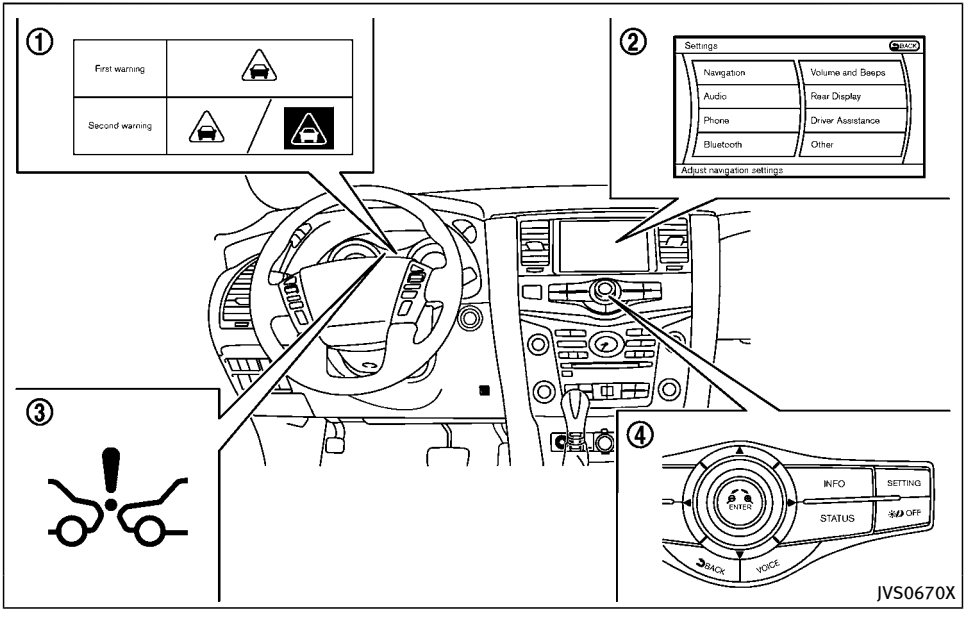
- **The FEB with pedestrian detection system is a supplemental aid to the driver. It is not a replacement for the driver's attention to traffic conditions or responsibility to drive safely. It cannot prevent accidents due to carelessness or dangerous driving techniques.**
- **The FEB with pedestrian detection system does not function in all driving, traffic, weather and road conditions.**

The FEB with pedestrian detection system can assist the driver when there is a risk of a forward collision with the vehicle ahead in the traveling lane or with a pedestrian.



The FEB with pedestrian detection system uses a radar sensor (A) located behind the grille of the front bumper to measure the distance to the vehicle ahead in the same lane.

For pedestrians, the FEB system uses a camera (B) installed behind the windshield in addition to the radar sensor.



(1) Indicators and warnings (on the vehicle information display)
(2) Center display
(3) FEB system warning light (on the instrument panel)
(4) Center multi-function control panel

FEB WITH PEDESTRIAN DETECTION SYSTEM OPERATION

The FEB with pedestrian detection system operates at speeds above approximately 3 MPH (5 km/h).

For the pedestrian detection function, the FEB with pedestrian detection system operates at speeds between 6 – 37 MPH (10 – 60 km/h).

If a risk of a forward collision with a vehicle is detected, the FEB with pedestrian detection system will firstly provide the warning to the driver by illuminating the warning in the vehicle information display and providing an audible alert. In addition, the FEB with pedestrian detection system pushes the accelerator pedal up. If the driver releases the accelerator pedal, then the system applies partial braking. If the driver applies the brakes quickly and forcefully, but the FEB with pedestrian detection system detects that there is still the possibility of a forward collision, the system will automatically increase the braking force.

If the risk of a forward collision becomes imminent and the driver does not take action, the FEB with pedestrian detection system issues the second visual (flashing) and audible alert, and then automatically applies harder braking.

If a risk of a forward impact with a pedestrian is detected, the FEB with pedestrian detection system issues the second visual (flashing) and audible alert , and the system will apply partial braking. If the driver applies the brakes quickly and forcefully but the FEB with pedestrian detection system detects that there is still the possibility of a forward impact with a pedestrian, the system will automatically increase the braking force. If the risk of collision becomes imminent and the driver does not take action, the FEB with pedestrian detection system automatically applies harder braking.

NOTE:

The vehicle's stop lights come on when braking is performed by the FEB with pedestrian detection system.

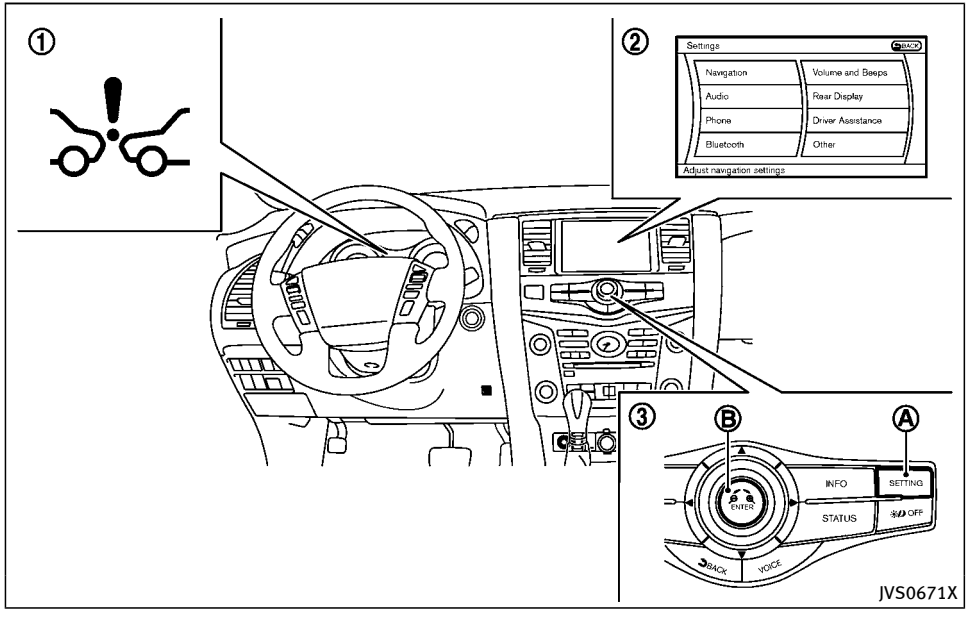
Depending on vehicle speed and distance to the vehicle or pedestrian ahead, as well as driving and roadway conditions, the system may help the driver avoid a forward collision or may help mitigate the consequences of a collision should one be unavoidable.

If the driver is handling the steering wheel, accelerating or braking, the FEB with pedestrian detection system will function later or will not function.

The automatic braking will cease under the following conditions:

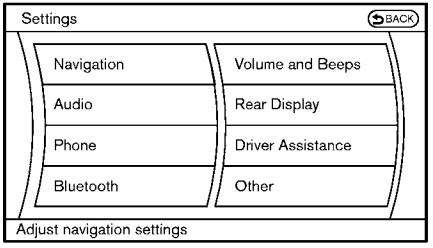
- When the steering wheel is turned as far as necessary to avoid a collision.
- When the accelerator pedal is depressed.
- When there is no longer a vehicle or pedestrian detected ahead.

If the FEB with pedestrian detection system has stopped the vehicle, the vehicle will remain at a standstill for approximately 2 seconds before the brakes are released.



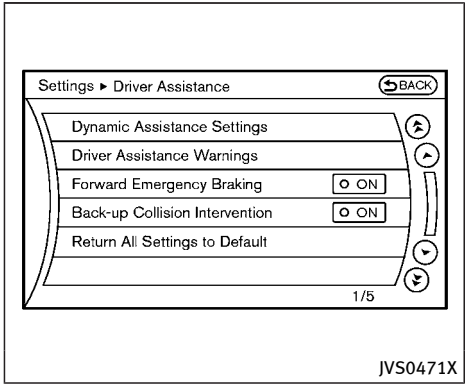
① FEB system warning light (on the instrument panel)
② Center display
③ Center multi-function control panel
Ⓐ SETTING button
Ⓑ ENTER button

Perform the following steps to turn the FEB with pedestrian detection system on or off.



TURNING THE FEB WITH PEDESTRIAN DETECTION SYSTEM ON/OFF

1. Push the SETTING button Ⓐ and highlight the “Driver Assistance” key on the display using the INFINITI controller. Then push the ENTER button Ⓑ.



2. Highlight the “Forward Emergency Braking” key, select ON (enabled) or OFF (disabled) and push the ENTER button Ⓑ.

When the FEB with pedestrian detection system is turned off, the FEB system warning light (orange) ① illuminates.

NOTE:

The FEB with pedestrian detection system will be automatically turned ON when the engine is restarted. The Predictive Forward Collision Warning (PFCW) system is integrated into the FEB with pedestrian detection system. There is not a separate selection in the display for the PFCW system. When the FEB with pedestrian detection is turned off, the PFCW system is also turned off.

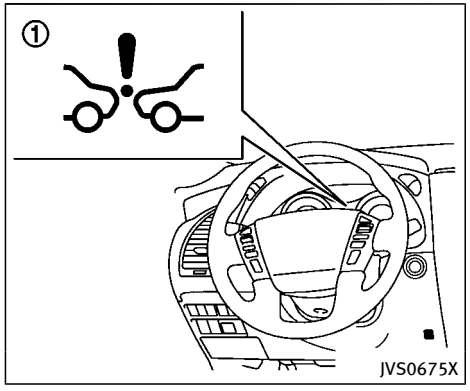
FEB WITH PEDESTRIAN DETECTION SYSTEM LIMITATIONS

WARNING

Listed below are the system limitations for the FEB with pedestrian detection system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **The FEB with pedestrian detection system cannot detect all vehicles or pedestrians under all conditions.**
- **The radar sensor FEB with pedestrian detection system does not detect the following objects:**
 - **— Small pedestrians (including small children), animals and cyclists.**
 - **— Pedestrians in wheelchairs or using mobile transport such as scooters, child-operated toys, or skateboards.**
 - **— Pedestrians who are seated or otherwise not in a full upright standing or walking position.**
 - **— Oncoming vehicles**
 - **— Crossing vehicles**
 - **— Obstacles on the roadside**
- **The FEB with pedestrian detection system has some performance limitations.**
 - **— If a stationary vehicle is in the vehicle’s path, the FEB with pedestrian detection system will not function when the vehicle is driven at speeds over approximately 50 MPH (80 km/h).**
 - **— For pedestrian detection, the FEB with pedestrian detection system will not function when the vehicle is driven at speeds over approximately 37 MPH (60 km/h) or below approximately 6 MPH (10 km/h).**
- **The FEB with pedestrian detection system will not function for pedestrians in darkness or in tunnels, even if there is street lighting in the area.**
- **For pedestrians, the FEB with pedestrian detection system will not issue the first warning and will not push the accelerator pedal up.**

- The FEB with pedestrian detection system may not function if the vehicle ahead is narrow (for example a motorcycle).
- The FEB with pedestrian detection system may not function if speed difference between the two vehicles is too small.
- The radar sensor FEB with pedestrian detection system may not function properly or detect a vehicle ahead in the following conditions:
 - — Poor visibility (conditions such as rain, snow, fog, dust storms, sandstorms, and road spray from other vehicles)
 - — Driving on a steep downhill slope or roads with sharp curves.
 - — Driving on a bumpy road surface, such as an uneven dirt road.
 - — If dirt, ice, snow or other material is covering the radar sensor area.
 - — Interference by other radar sources.
 - — The camera area of windshield is fogged up, or covered with dirt, water drops, ice, snow, etc.
 - — Strong light (for example, sunlight or high beams from oncoming vehicles) enters the front camera. Strong light causes the area around the pedestrian to be cast in a shadow, making it difficult to see.
 - — A sudden change in brightness occurs. (For example, when the vehicle enters or exits a tunnel or a shaded area or lightning flashes.)
 - — The poor contrast of a person to the background, such as having clothing color or pattern which is similar to the background.
 - — The pedestrian's profile is partially obscured or unidentifiable due to the pedestrian transporting luggage, wearing bulky or very loose-fitting clothing or accessories.
 - — When towing a trailer or other vehicle.
- The system performance may degrade in the following conditions:
 - — The vehicle is driven on a slippery road.
 - — The vehicle is driven on a slope.
 - — Excessively heavy baggage is loaded in the rear seat or the luggage area of your vehicle.
- The system is designed to automatically check the sensor (radar and camera)'s functionality, within certain limitations. The system may not detect blockage of sensor areas covered by ice, snow or stickers, for example. In these cases, the system may not be able to warn the driver properly. Be sure that you check, clean and clear sensor areas regularly.
- In some road and traffic conditions, the FEB with pedestrian detection system may unexpectedly apply partial braking. When acceleration is necessary, depress the accelerator pedal to override the system.
- Excessive noise will interfere with the warning chime sound, and the chime may not be heard.



SYSTEM TEMPORARILY UNAVAILABLE

Condition A

In the following conditions, the FEB system warning light (orange) ① will illuminate and the system will be turned off automatically.

- The radar sensor picks up interference from another radar source.
- The camera area of windshield is misted or frozen.
- Strong light is shining from the front.
- The cabin temperature is over approximately 104°F (40°C) in direct sunlight.
- The camera area of windshield glass is continuously covered with dirt, etc.

Action to take:

When the above conditions no longer exist, the FEB with pedestrian detection system will resume automatically.

NOTE:

When the inside of the windshield on camera area is misted or frozen, it will take a period of time to remove it after air conditioner turns on. If dirt appears on this area, it is recommended you visit an INFINITI retailer.

Condition B

In the following condition, the FEB system warning light (orange) ① will illuminate and the "FRONT RADAR OBSTRUCTION" warning message will appear in the vehicle information display.

- The sensor area of the front grille is covered with dirt or is obstructed

Action to take:

If the warning light (orange) ① comes on, stop the vehicle in a safe place, place the shift lever in the P (Park) position and turn the engine off. Clean the radar cover on the front grille with a soft cloth, and restart the engine. If the warning light continues to illuminate, have the FEB with pedestrian detection system checked. It is recommended you visit an INFINITI retailer for this service.

NOTE:

If the FEB with pedestrian detection system stops working, the PFCW system will also stop working.

Condition C

When the accelerator pedal actuator detects that the internal motor temperature is high, the FEB with pedestrian detection system is automatically turned off. The FEB system warning light (orange) ① will illuminate.

Action to take:

When the above conditions no longer exist, the FEB with pedestrian detection system will resume automatically.

Condition D

When VDC system is OFF, the FEB brake will not operate. In this case only visible and audible warning operates. The FEB system warning light (orange) ① will illuminate.

Action to take:

When VDC system is ON, the FEB with pedestrian detection system will resume automatically.

SYSTEM MALFUNCTION

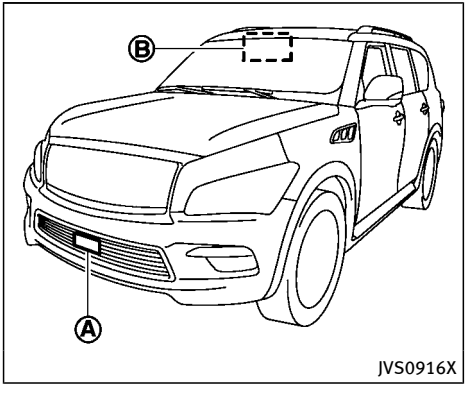
If the FEB with pedestrian detection system malfunctions, it will be turned off automatically, a chime will sound, the FEB system warning light (orange) ① will illuminate.

Action to take:

If the warning light (orange) ① comes on, stop the vehicle in a safe location and place the shift lever in the P (Park) position. Turn the engine off and restart the engine. If the warning light continues to illuminate, have the FEB with pedestrian detection system checked. It is recommended you visit an INFINITI retailer for this service.

NOTE:

If the FEB with pedestrian detection system stops working, the PFCW system will also stop working.



SYSTEM MAINTENANCE

The radar sensor Ⓐ is located behind the grille of the front bumper. The camera Ⓑ is located on the upper side of the windshield.

To keep the FEB with pedestrian detection system operating properly, be sure to observe the following:

- Always keep the sensor area of the front bumper and windshield clean.
- Do not strike or damage the areas around the sensors (ex. Bumper, windshield).
- Do not cover or attach stickers or similar objects on the front bumper near the sensor area. This could cause failure or malfunction.
- Do not attach metallic objects near the radar sensor area (brush guard, etc.). This could cause failure or malfunction.
- Do not place reflective materials, such as white paper or a mirror, on the instrument panel. The reflection of sunlight may adversely affect the camera unit's detection capability.
- Do not alter, remove or paint the front bumper. It is recommended you contact an INFINITI retailer before customizing or restoring the front bumper.

Radio frequency statement

For USA:

FCC ID: OAYARS3-B

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. **This device may not cause harmful interference, and**
2. **This device must accept any interference received, including interference that may cause undesired operation.**

FCC Warning

Changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For Canada:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

1. **This device may not cause interference, and**
2. **This device must accept any interference, including interference that may cause undesired operation of the device.**

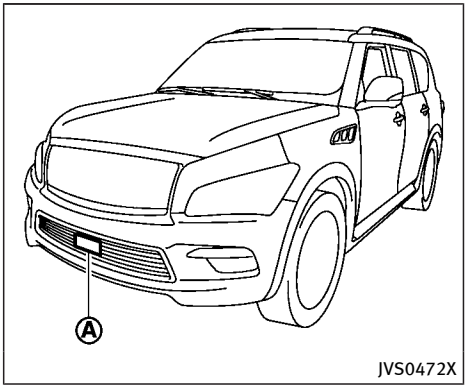
PREDICTIVE FORWARD COLLISION WARNING (PFCW) (if so equipped)

WARNING

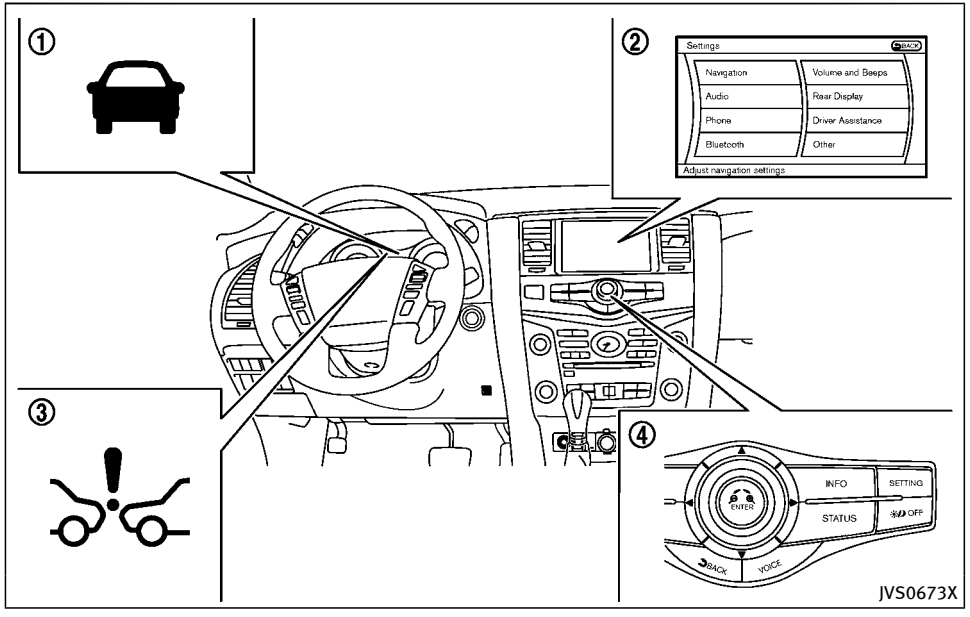
Failure to follow the warnings and instructions for proper use of the PFCW system could result in serious injury or death.

- **The PFCW system helps warn the driver before a collision but will not avoid a collision. It is the driver's responsibility to stay alert, drive safely and be in control of the vehicle at all times.**

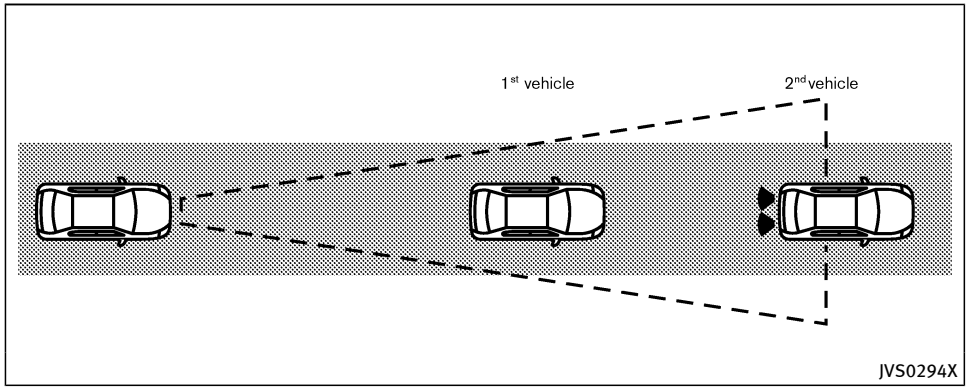
The PFCW system can help alert the driver when there is a sudden braking of a second vehicle traveling in front of the vehicle ahead in the same lane.



The PFCW system uses a radar sensor Ⓐ located behind the lower grille of the front bumper to measure the distance to a second vehicle ahead in the same lane.



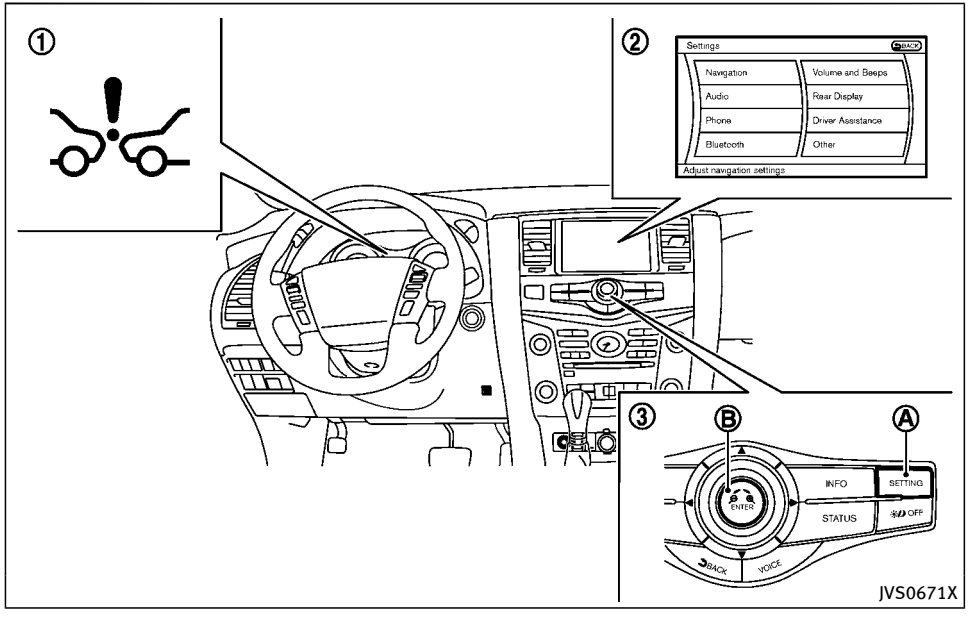
① Vehicle ahead detection indicator (on the vehicle information display)
② Center display
③ FEB system warning light (on the instrument panel)
④ Center multi-function control panel



PFCW SYSTEM OPERATION

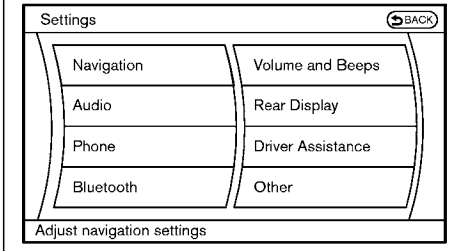
The PFCW system operates at speeds above approximately 3 MPH (5 km/h).

If there is a potential risk of a forward collision, the PFCW system will warn the driver by blinking the vehicle ahead detection indicator, and sounding an audible alert.



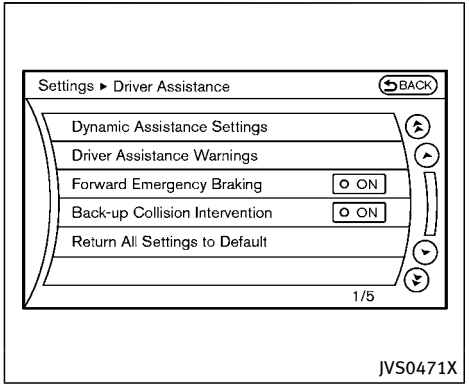
① FEB system warning light (on the instrument panel)
② Center display
③ Center multi-function control panel
Ⓐ SETTING button
Ⓑ ENTER button

Perform the following steps to turn the PFCW system on or off.



TURNING THE PFCW SYSTEM ON/OFF

1. Push the SETTING button Ⓐ and highlight the “Driver Assistance” key on the display using the INFINITI controller. Then push the ENTER button Ⓑ.



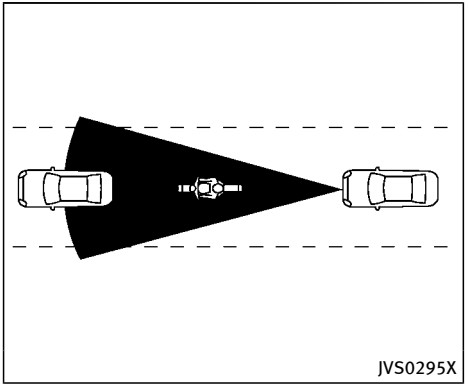


Illustration A

2. Highlight the “Forward Emergency Braking” key, select ON (enabled) or OFF (disabled) and push the ENTER button (B).

When the PFCW system is turned off, the FEB system warning light (orange) (1) illuminates.

NOTE:

The PFCW system is integrated into the FEB with pedestrian detection system. There is not a separate selection in the display for the PFCW system. When the FEB with pedestrian detection system is turned off, the PFCW system is also turned off.

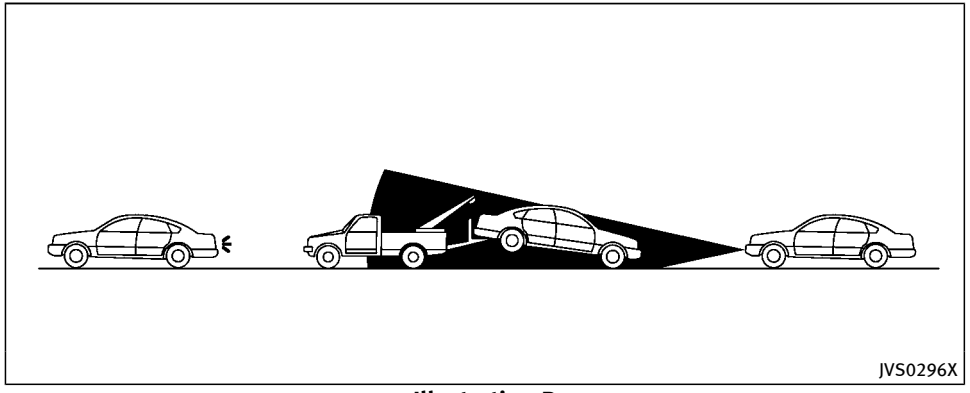


Illustration B

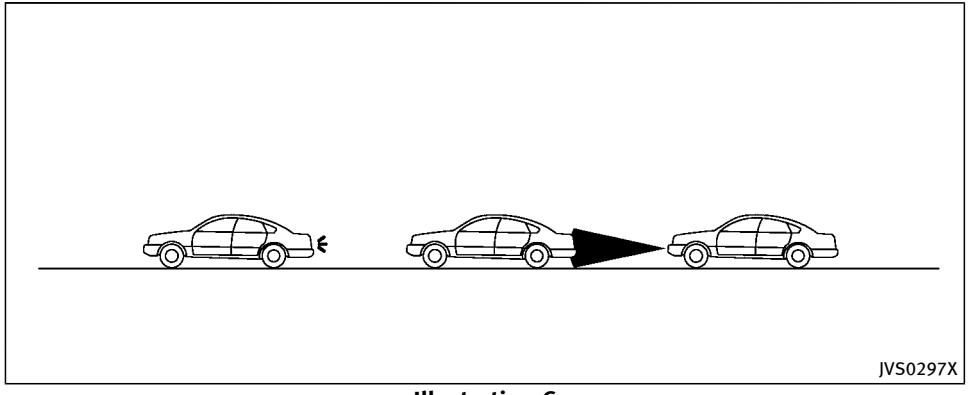


Illustration C

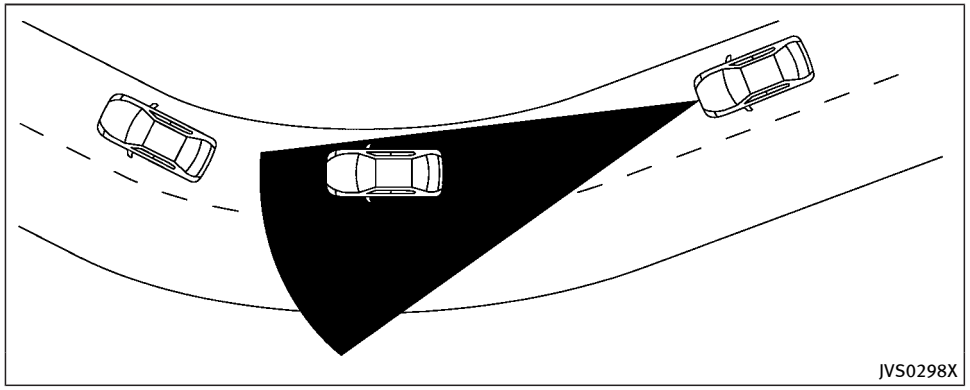


Illustration D

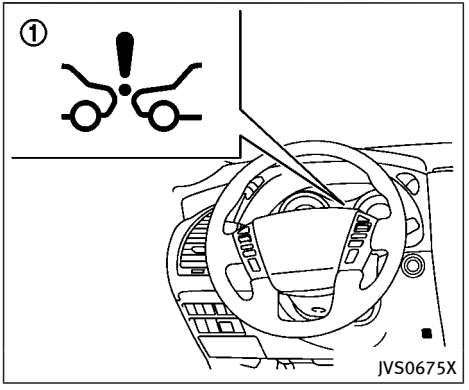
PFCW SYSTEM LIMITATIONS

WARNING

Listed below are the system limitations for the PFCW system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **The PFCW system cannot detect all vehicles under all conditions.**
- **The radar sensor does not detect the following objects:**
 - **— Pedestrians, animals or obstacles in the roadway**
 - **— Oncoming vehicles**
 - **— Crossing vehicles**
- **(Illustration A) The PFCW system does not function when a vehicle ahead is a narrow vehicle, such as a motorcycle.**
- **The radar sensor may not detect a vehicle ahead in the following conditions:**
 - **— Snow or heavy rain**
 - **— Dirt, ice, snow or other material covering the radar sensor**
 - **— Interference by other radar sources**
 - **— Snow or road spray from travelling vehicles.**
 - **— Driving in a tunnel**
 - **— Towing a trailer or other vehicle**
- **(Illustration B) When the vehicle ahead is being towed.**
- **(Illustration C) When the distance to the vehicle ahead is too close, the beam of the radar sensor is obstructed.**
- **(Illustration D) When driving on a steep downhill slope or roads with sharp curves.**
- **The system is designed to automatically check the sensor's functionality, within certain limitations. The system may not detect some forms of obstruction of the sensor area such as ice, snow, stickers, for example. In these cases, the system may not be able to warn the driver properly. Be sure that you check, clean and clear the sensor area regularly.**
- **Excessive noise will interfere with the warning chime sound, and the chime**

may not be heard.



SYSTEM TEMPORARILY UNAVAILABLE

Condition A

When the radar sensor picks up interference from another radar source, making it impossible to detect a vehicle ahead, the PFCW system is automatically turned off. The FEB system warning light (orange) ① will illuminate.

Action to take:

When the above conditions no longer exist, the PFCW system will resume automatically.

Condition B

When the sensor area is covered with dirt or is obstructed, making it impossible to detect a vehicle ahead, the PFCW system is automatically turned off. The FEB system warning light (orange) ① will illuminate and the “FRONT RADAR OBSTRUCTION” warning message will appear in the vehicle information display.

Action to take:

If the warning light (orange) ① comes on, stop the vehicle in a safe place, place the shift lever in the P (Park) position and turn the engine off. Clean the radar cover on lower grille with a soft cloth, and restart the engine. If the warning light continues to illuminate, have the PFCW system checked. It is recommended you visit an INFINITI retailer for this service.

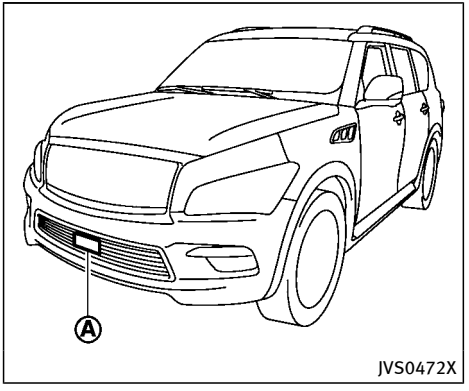
SYSTEM MALFUNCTION

If the PFCW system malfunctions, it will be turned off automatically, a chime will sound, the FEB system warning light (orange) ① will illuminate.

Action to take:

If the warning light (orange) ① illuminates, stop the vehicle in a safe location

and place the shift lever in the P (Park) position. Turn the engine off and restart the engine. If the warning light continues to illuminate, have the PFCW system checked. It is recommended you visit an INFINITI retailer for this service.



SYSTEM MAINTENANCE

The sensor Ⓐ is located behind the lower grille of the front bumper.

To keep the system operating properly, be sure to observe the following:

- Always keep the sensor area of the front bumper clean.
- Do not strike or damage the areas around the sensor.
- Do not cover or attach stickers or similar objects on the front bumper near the sensor area. This could cause failure or malfunction.
- Do not attach metallic objects near the sensor area (brush guard, etc.). This could cause failure or malfunction.
- Do not alter, remove or paint the front bumper. Before customizing or restoring the front bumper, it is recommended you contact an INFINITI retailer.

Radio frequency statement

For USA:

FCC ID: OAYARS3-B

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. **This device may not cause harmful interference, and**
2. **This device must accept any interference received, including interference that may cause undesired operation.**

FCC Warning

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For Canada:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two

conditions:

1. **This device may not cause interference, and**
2. **This device must accept any interference, including interference that may cause undesired operation of the device.**

BREAK-IN SCHEDULE

CAUTION

During the first 1,200 miles (2,000 km), follow these recommendations to obtain maximum engine performance and ensure the future reliability and economy of your new vehicle.

Failure to follow these recommendations may result in shortened engine life and reduced engine performance.

- Avoid driving for long periods at constant speed, either fast or slow. Do not run the engine over 4,000 rpm.
- Do not accelerate at full throttle in any gear.
- Avoid quick starts.
- Avoid hard braking as much as possible.
- Do not tow a trailer for the first 500 miles (805 km).

FUEL EFFICIENT DRIVING TIPS

Follow these easy-to-use Fuel Efficient Driving Tips to help you achieve the most fuel economy from your vehicle.

1. Use smooth accelerator and brake pedal application.
 - Avoid rapid starts and stops.
 - Use smooth, gentle accelerator and brake application whenever possible.
 - Maintain constant speed while commuting and coast whenever possible.
2. Maintain constant speed.
 - Look ahead to try and anticipate and minimize stops.
 - Synchronizing your speed with traffic lights allows you to reduce your number of stops.
 - Maintaining a steady speed can minimize red light stops and improve fuel efficiency.
3. Use air conditioning (A/C) at higher vehicle speeds.
 - Below 40 MPH (64 km/h), it is more efficient to open windows to cool the vehicle due to reduced engine load.
 - Above 40 MPH (64 km/h), it is more efficient to use A/C to cool the vehicle due to increased aerody-

namic drag.
- Recirculating the cool air in the cabin when the A/C is on reduces cooling load.

4. Drive at economical speeds and distances.
 - Observing the speed limit and not exceeding 60 MPH (97 km/h) (where legally allowed) can improve fuel efficiency due to reduced aerodynamic drag.
 - Maintaining a safe following distance behind other vehicles reduces unnecessary braking.
 - Safely monitoring traffic to anticipate changes in speed permits reduced braking and smooth acceleration changes.
 - Select a gear range suitable to road conditions.
5. Use cruise control.
 - Using cruise control during highway driving helps maintain a steady speed.
 - Cruise control is particularly effective in providing fuel savings when driving on flat terrains.
6. Plan for the shortest route.
 - Utilize a map or navigation system to determine the best route to save time.
7. Avoid idling.
 - Shutting off your engine when safe for stops exceeding 30-60 seconds saves fuel and reduces emissions.
8. Buy an automated pass for toll roads.
 - Automated passes permit drivers to use special lanes to maintain cruising speed through the toll and avoid stopping and starting.
9. Winter warm up.
 - Limit idling time to minimize impact to fuel economy.
 - Vehicles typically need no more than 30 seconds of idling at start-up to effectively circulate the engine oil before driving.
 - Your vehicle will reach its ideal operating temperature more quickly while driving versus idling.
10. Keeping your vehicle cool.
 - Park your vehicle in a covered parking area or in the shade whenever possible.
 - When entering a hot vehicle, opening the windows will help to reduce the inside temperature faster, resulting in reduced demand on your A/C system.

INCREASING FUEL ECONOMY

- Keep your engine tuned up.
- Follow the recommended scheduled maintenance.
- Keep the tires inflated to the correct pressure. Low tire pressure increases tire wear and lowers fuel economy.
- Keep the wheels in correct alignment. Improper alignment increases tire wear and lowers fuel economy.
- Use the recommended viscosity engine oil. (See “Engine oil and oil filter recommendation” (P.10-6).)

INFINITI ALL-MODE 4WD® (if so equipped)

WARNING

- **Do not attempt to raise two wheels off the ground and shift the transmission to any drive or reverse position with the engine running. Doing so may result in drivetrain damage or unexpected vehicle movement which could result in serious vehicle damage or personal injury.**
- **Do not attempt to test a 4WD equipped vehicle on a 2-wheel dynamometer or similar equipment even if the other two wheels are raised off the ground. Make sure you inform test facility personnel that your vehicle is equipped with 4WD before it is placed on a dynamometer. Using the wrong test equipment may result in drivetrain damage or unexpected vehicle movement which could result in serious vehicle damage or personal injury.**

CAUTION

- **Do not drive the vehicle in the 4HI or 4LO position on dry hard surface roads. Driving on dry, hard surfaces in 4HI or 4LO may cause unnecessary noise, tire wear and increased fuel consumption.**

 If the Four-Wheel Drive (4WD) warning light turns on when driving on dry hard surface roads:

 — in the 4HI position, shift the 4WD shift switch to AUTO.

 — in the 4LO position, stop the vehicle and shift the transmission lever to the N (Neutral) position with the brake pedal depressed and shift the 4WD shift switch to AUTO.

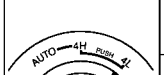
 If the 4WD warning light is still on after the above operation, have your vehicle checked. It is recommended you visit an INFINITI retailer for this service.
- **The transfer case may be damaged if you continue driving with the 4WD warning light blinking.**

See “On-pavement and off-road driving precautions” (P.5-9) for other precautions for offroad driving.

INFINITI ALL-MODE 4WD® SYSTEM

The all mode 4WD system provides 3 positions (AUTO, 4HI and 4LO), so you can select the desired drive mode according to the driving conditions.

4WD shift procedure:

4WD Shift Switch	Wheels Driven	4WD Shift Indicator	Conditions of Use	4WD Shift Procedure
 AUTO	Rear wheels or 4 wheels	AUTO	For driving on paved or slippery roads	Move the 4WD shift switch between AUTO and 4H. The 4WD shift indicator light will indicate that the transfer shift position is engaged. • IT IS NOT NECESSARY TO MOVE THE N (NEUTRAL) POSITION IN THIS OPERATION. • PERFORM THIS OPERATION WHEN DRIVING STRAIGHT.
 4H	4 wheels	▲ 4HI	For driving on rocky, sandy or snow-covered roads	
	Neutral	▼ 4LO ⬇ ⬆ ▲ 4HI (flashing) (*1)	Neutral disengages the automatic transmission mechanical parking lock, which will allow the vehicle to roll. Do not leave the transfer shift position in Neutral. (*2)	1. Stop the vehicle. 2. Shift the transmission selector lever to the N (Neutral) position. 3. Depress and turn the 4WD shift switch between 4H and 4L with the foot brake pedal depressed. YOU CANNOT MOVE THE 4WD SHIFT SWITCH BETWEEN 4H AND 4L UNLESS YOU FIRST STOP THE VEHICLE, DEPRESS THE FOOT BRAKE PEDAL AND SHIFT THE TRANSMISSION SELECTOR LEVER TO THE N (NEUTRAL) POSITION. THEN DEPRESS AND TURN THE 4WD SHIFT SWITCH BETWEEN 4H AND 4L. (*3)
 4L	4 wheels	▼ 4LO (4LO illuminated)	For use when the maximum power and traction is required (for example, on steep grades or rocky, sandy or muddy roads).	

SSD1100

*1: The 4LO and 4HI indicator may flash alternately. Stop the vehicle and be sure to turn the 4WD shift switch after the transmission shift lever has been shifted to the N (Neutral) position. If the indicator keeps flashing after the 4WD shift procedure, drive slowly without abrupt maneuvers for a while. Then the indicator will illuminate or turn off.

· Avoid making a turn or abrupt starts while shifting to the 4LO position. Otherwise the gears may grind, damaging the drive system.

*2: While changing in and out of the 4LO position, the engine must be running. Otherwise, the shift will not take place and the 4LO indicator will not be on or flashing.

*3: Make sure that the 4LO indicator turns on when shifting the 4WD shift switch to the 4L position. The Vehicle Dynamic Control (VDC) off indicator light will also turn on when 4L is selected. (See “Vehicle Dynamic Control (VDC) system” (P.5-137).)

The 4WD shift switch is used to select the 4WD mode depending on the driving conditions. There are 3 types of drive modes available, AUTO, 4HI and 4LO.

The 4WD shift switch electronically controls the transfer case operation. Rotate the switch to move between each mode, AUTO, 4H and 4L.

You must depress the 4WD shift switch to select 4L, and the vehicle MUST be stationary and the shift lever in the N (Neutral) position when changing into or out of 4L.

WARNING

- **When parking, apply the parking brake before stopping the engine and make sure that the 4WD shift indicator is on and the ATP warning light turns off. Otherwise, the vehicle could unexpectedly move even if the automatic transmission is in the P (Park) position.**
- **The 4LO and 4HI indicators must stop blinking and the 4LO or 4HI indicator must remain illuminated or turn off before shifting the transmission into gear. If the shift lever is shifted from the N (Neutral) position to any other gear while the 4LO and 4HI indicators are blinking alternately, the vehicle may move unexpectedly.**

CAUTION

- **Never shift the 4WD shift switch between 4L and 4H while driving.**
- **The 4HI position provides greater traction. Avoid excessive speed, as it will cause increased fuel consumption and higher oil temperatures, and could damage drivetrain component. Speeds over 62 MPH (100 km/h) in 4HI is not recommended.**
- **The 4LO position provides maximum traction. Avoid raising vehicle speed excessively, as the maximum speed is approximately 31 MPH (50 km/h).**
- **When driving straight, shift the 4WD shift switch to the AUTO or 4H position. Do not move the 4WD shift switch when making a turn or reversing.**
- **Do not shift the 4WD shift switch (between AUTO and 4H) while driving on steep downhill grades. Use the engine brake and low automatic transmission gears for engine braking.**
- **Do not operate the 4WD shift switch (between AUTO and 4H) with the rear wheels spinning.**
- **Do not drive on dry hard surface roads in the 4HI or 4LO position. Driving on dry hard surfaces in 4HI or 4LO may cause unnecessary noise and tire wear. INFINITI recommends driving in the AUTO position under these conditions.**
- **The 4WD transfer case may not be shifted between 4HI and 4LO at low ambient temperatures and the 4LO and 4HI indicators may blink even when the 4WD shift switch is shifted. After driving for a while you can change the 4WD shift switch between 4H and 4L.**

When driving on rough roads,

- Drive carefully according to the road surface conditions.

When the vehicle is stuck,

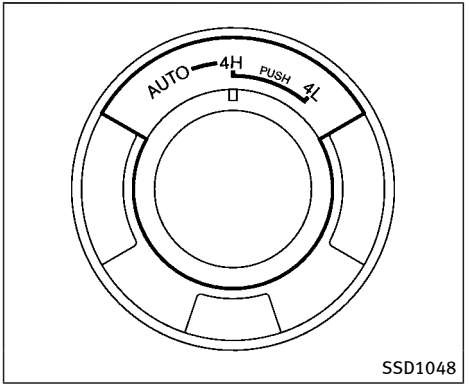
- Place stones or wooden blocks under the tires to free the vehicle.
- Set the 4WD shift switch to 4H or 4L.
- If it is difficult to free the vehicle, repeat forward and backward movement to

increase the movement.

- If the vehicle is stuck deep in mud, tire chains may be effective.

CAUTION

- **Do not spin the tires excessively. Tires will sink deep into the mud, making it difficult to free the vehicle.**
- **Avoid shifting gears with the engine running at high speeds as this may cause malfunction.**



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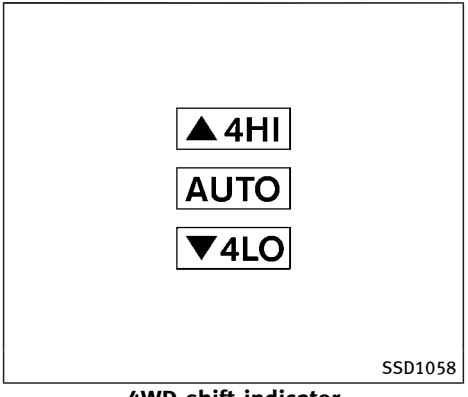
4WD SHIFT SWITCH

- Shift the 4WD shift switch to either the AUTO, 4H or 4L position, depending on driving conditions.
- With the switch set to the AUTO position, distribution of torque to the front and rear wheels changes automatically, depending on road conditions encountered [ratio; 0 : 100 (2WD) → 50 : 50 (4WD)]. This results in improved driving stability.
- **When the vehicle is stopped after making a turn, you may feel a slight jolt after the shift lever is shifted to N (Neutral) or P (Park) position. This occurs because the transfer clutch is released and not because of a malfunction.**

CAUTION

- **When driving straight, shift the 4WD shift switch to the AUTO or 4H position. Do not move the 4WD shift switch when making a turn or reversing. If the 4WD shift switch is operated while making a turn, accelerating or decelerating or if the ignition switch is placed in the OFF position while in the AUTO, 4H or 4L, you may feel a jolt. This is not a malfunction.**
- **Do not shift the 4WD shift switch while driving on steep downhill grades. Use the engine brake and low automatic transmission gears for engine braking.**
- **Do not operate the 4WD shift switch with the rear wheels spinning.**
- **Before placing the 4WD shift switch in the 4H position from AUTO, ensure the vehicle speed is less than 62 MPH (100 km/h). Failure to do so can damage the 4WD system.**
- **Never shift the 4WD shift switch between 4L and 4H while driving.**

- **Engine idling speed is high while warming up the engine. Be especially careful when starting or driving on slippery surfaces with the 4WD shift switch in AUTO.**



4WD shift indicator

4WD SHIFT INDICATOR

The 4WD shift indicator is displayed in the vehicle information display.

The indicator should turn off within 1 second after placing the ignition switch in the ON position.

While the engine is running, the 4WD shift indicator will illuminate the position selected by the 4WD shift switch. (See the 4WD shift procedure list shown in the "INFINITI all-mode 4WD® system" (P.5-125).)

- **The 4WD shift indicator may blink while shifting from one drive mode to the other. When the shifting is completed, the 4WD shift indicator will come on. If the indicator does not come on immediately, make sure the area around the vehicle is safe, and drive the vehicle straight, accelerate or decelerate or move the vehicle in reverse, then shift the 4WD shift switch.**
- If the 4WD warning light comes on, the 4WD shift indicator turns off.

4WD WARNING LIGHT

Warning light		Comes on or blinks when:
4WD	Illuminates	There is a malfunction in the 4WD system
4WD	Blinks rapidly	The transfer case oil temperature is abnormally high
4WD	Blinks slowly	The difference in wheel rotation is large

The 4WD warning light is located in the meter.

The 4WD warning light comes on when the ignition switch is placed in the ON position. It turns off soon after the engine is started.

If any malfunction occurs in the 4WD system when the ignition switch is placed in the ON position, the 4WD warning light will either remain illuminated or blink.

If the 4WD warning light comes on, the 4WD shift indicator turns off.

High-temperature transfer case oil makes the 4WD warning light blink rapidly (about twice per second). If the warning light blinks rapidly during operation, stop the vehicle in a safe place immediately. Then if the light turns off after a while, you can continue driving.

A large difference between the diameters of front and rear wheels will make the 4WD warning light blink slowly (about once per two seconds). Change the 4WD shift switch to AUTO and do not drive fast.

CAUTION

- **If the 4WD warning light comes on or blinks slowly during operation or rapidly after stopping the vehicle for a while, have your vehicle checked as soon as possible. It is recommended you visit an INFINITI retailer for this service.**
- **Shifting between 4HI and 4LO is not recommended when the 4WD warning light turns on.**
- **When the 4WD warning light comes on, the 2WD mode may be engaged even if the 4WD shift switch is in AUTO or 4H. Be especially careful when driving. If corresponding parts are malfunctioning, the 4WD mode will not be engaged even if the 4WD shift switch is shifted.**
- **Do not drive the vehicle in the 4HI or 4LO position on dry hard surface roads. Driving on dry, hard surfaces in 4HI or 4LO may cause unnecessary noise, tire wear and increased fuel consumption.**

 If the 4WD warning light turns on when driving on dry hard surface roads:

 — in the AUTO or 4HI position, shift the 4WD shift switch to AUTO.

 — in the 4LO position, stop the vehicle and shift the transmission shift lever to the N (Neutral) position and shift the 4WD shift switch to AUTO.
- **If the 4WD warning light is still on after the above operation, have your vehicle checked as soon as possible. It is recommended you visit an INFINITI retailer for this service.**
- **The transfer case may be damaged if you continue driving with the warning light blinking.**

HILL START ASSIST SYSTEM

WARNING

- **Never rely solely on the hill start assist system to prevent the vehicle from moving backward on a hill. Always drive carefully and attentively. Depress the brake pedal when the vehicle is stopped on a steep hill. Be especially careful when stopped on a hill on frozen or muddy roads. Failure to prevent the vehicle from rolling backwards may result in a loss of control of the vehicle and possible serious injury or death.**
- **The hill start assist system is not designed to hold the vehicle at a standstill on a hill. Depress the brake pedal when the vehicle is stopped on a steep hill. Failure to do so may cause the vehicle to roll backwards and may result in a collision or serious personal injury.**
- **The hill start assist system may not prevent the vehicle from rolling backwards on a hill under all load or road conditions. Always be prepared to depress the brake pedal to prevent the vehicle from rolling backwards. Failure to do so may result in a collision or serious personal injury.**

The hill start assist system automatically keeps the brakes applied to help prevent the vehicle from rolling backwards in the time it takes the driver to release the brake pedal and apply the accelerator when the vehicle is stopped on a hill.

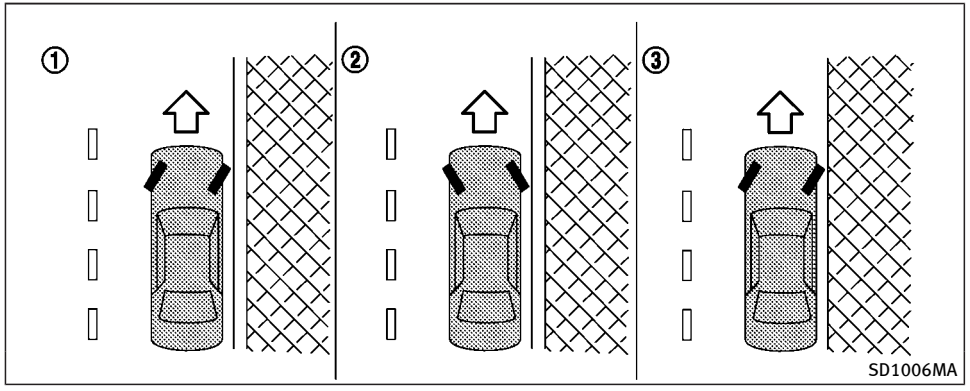
The hill start assist system will operate automatically under the following conditions:

- The transmission is shifted to a forward or reverse gear.
- The vehicle is stopped completely on a hill by applying the brake.

The maximum holding time is 2 seconds. After 2 seconds the vehicle will begin to roll back and the hill start assist system will stop operating completely.

The hill start assist system will not operate when the transmission is shifted to the N (Neutral) or P (Park) position or on a flat and level road.

When the Vehicle Dynamic Control (VDC) warning light illuminates in the meter, the hill start assist system will not operate. (See “Warning lights, indicator lights and audible reminders” (P.2-11).)



WARNING

- **Do not stop or park the vehicle over flammable materials such as dry grass, waste paper or rags. They may ignite and cause a fire.**
- **Never leave the engine running while the vehicle is unattended.**
- **Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls. Unattended children could become involved in serious accidents.**
- **To help avoid risk of injury or death through unintended operation of the vehicle and/or its systems, do not leave children, people who require the assistance of others or pets unattended in your vehicle. Additionally, the temperature inside a closed vehicle on a warm day can quickly become high enough to cause a significant risk of injury or death to people and pets.**
- **Safe parking procedures require that both the parking brake be applied and the transmission be placed in the P (Park) position. Failure to do so could cause the vehicle to move unexpectedly or roll away and result in an accident.**
- **Make sure the automatic transmission shift lever has been pushed as far forward as it can go and cannot be moved without depressing the foot brake pedal.**

1. Firmly apply the parking brake.
2. Move the shift lever to the P (Park) position.
3. To help prevent the vehicle from rolling into the street when parked on a sloping drive way, it is a good practice to turn the wheels as illustrated.
 - HEADED DOWNHILL WITH CURB: ①

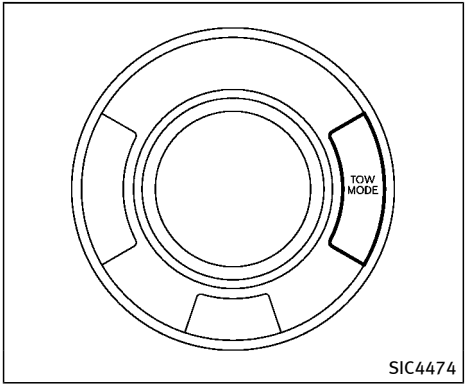
 Turn the wheels into the curb and move the vehicle forward until the curb side wheel gently touches the curb.
 - HEADED UPHILL WITH CURB: ②

 Turn the wheels away from the curb and move the vehicle back until the curb side wheel gently touches the curb.
 - HEADED UPHILL OR DOWNHILL, NO CURB: ③

 Turn the wheels toward the side of the road so the vehicle will move away from the center of the road if it moves.

TOW MODE

4. Push the ignition switch to the OFF position.

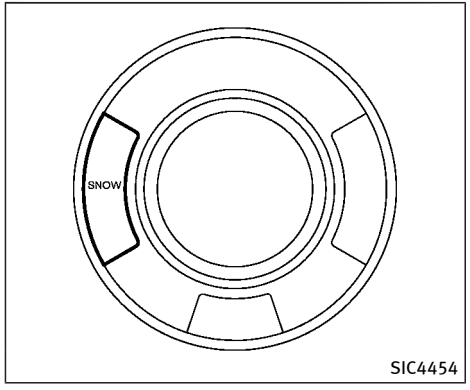


The TOW MODE should be used when pulling a heavy trailer or hauling a heavy load. Driving the vehicle in the TOW MODE with no trailer/load or light trailer/light load will not cause any damage. However, fuel economy may be reduced, and the transmission/engine driving characteristics may feel unusual.

Push the TOW MODE switch to activate TOW MODE. The indicator light on the TOW MODE switch illuminates when the TOW MODE is selected. Push the TOW MODE switch again to turn the TOW MODE OFF.

TOW MODE is automatically canceled when the ignition switch is placed in the OFF position.

SNOW MODE



For driving or starting the vehicle on snowy roads or slippery areas, turn the SNOW mode on.

To turn the SNOW mode on, push the SNOW mode switch. The SNOW mode indicator light on the meter panel will illuminate. When the SNOW mode is activated, engine output is controlled to avoid wheel spin.

To turn the SNOW mode off, push the switch and the indicator on the meter panel will turn off. Turn the SNOW mode off for normal driving and fuel economy.

POWER STEERING

WARNING

If the engine is not running or is turned off while driving, the power assist for the steering will not work. Steering will be harder to operate.

The power assisted steering uses a hydraulic pump, driven by the engine, to assist steering.

If the engine stops or the drive belt breaks, you will still have control of the vehicle. However, much greater steering effort is needed, especially in sharp turns and at low speeds.

BRAKE SYSTEM

BRAKING PRECAUTIONS

The brake system has two separate hydraulic circuits. If one circuit malfunctions, you will still have braking ability at two wheels.

You may feel a small click and hear a sound when the brake pedal is fully depressed slowly. This is not a malfunction and indicates that the brake assist mechanism is operating properly.

Hydraulically-assisted brakes

The hydraulically-assisted brake system is designed to use a hydraulic pump driven electrically, to assist braking. If the engine stops, you can stop the vehicle by depressing the foot brake pedal. However, greater foot pressure on the foot brake pedal will be required to stop the vehicle. The stopping distance will be longer.

Wet brakes

When the vehicle is washed or driven through water, the brakes may get wet. As a result, your braking distance will be longer and the vehicle may pull to one side during braking.

To dry brakes, drive the vehicle at a safe speed while lightly tapping the brake pedal

to heat-up the brakes. Do this until the brakes return to normal. Avoid driving the vehicle at high speeds until the brakes function correctly.

PARKING BRAKE BREAK-IN

Break in the parking brake shoes whenever the stopping effect of the parking brake is weakened or whenever the parking brake shoes and/or drums/rotors are replaced, in order to assure the best braking performance.

This procedure is described in the vehicle service manual. It is recommended you visit an INFINITI retailer for this service.

Using the brakes

Avoid resting your foot on the brake pedal while driving. This will cause overheating of the brakes, wearing out the brake and pads faster and reduce gas mileage.

To help save the brakes and to prevent the brakes from overheating, reduce speed and downshift to a lower gear before going down a slope or long grade. Overheated brakes may reduce braking performance and could result in loss of vehicle control.

WARNING

- **While driving on a slippery surface, be careful when braking, accelerating or downshifting. Abrupt braking or accelerating could cause the wheels to skid and result in an accident.**
- **If the engine is not running or is turned off while driving, the power assist for the brakes will not work. Braking will be harder.**

BRAKE ASSIST

When the force applied to the brake pedal exceeds a certain level, the Brake Assist is activated generating greater braking force than a conventional brake booster even with light pedal force.

WARNING

The Brake Assist is only an aid to assist braking operation and is not a collision warning or avoidance device. It is the driver's responsibility to stay alert, drive safely and be in control of the vehicle at all times.

ANTI-LOCK BRAKING SYSTEM (ABS)

WARNING

- **The Anti-lock Braking System (ABS) is a sophisticated device, but it cannot prevent accidents resulting from careless or dangerous driving techniques. It can help maintain vehicle control during braking on slippery surfaces. Remember that stopping distances on slippery surfaces will be longer than on normal**

surfaces even with ABS. Stopping distances may also be longer on rough, gravel or snow covered roads, or if you are using tire chains. Always maintain a safe distance from the vehicle in front of you. Ultimately, the driver is responsible for safety.

- **Tire type and condition may also affect braking effectiveness.**
 - **— When replacing tires, install the specified size of tires on all four wheels.**
 - **— When installing a spare tire, make sure that it is the proper size and type as specified on the Tire and Loading Information label. See "Tire and loading information label" (P.10-13).**
 - **— For detailed information, see "Wheels and tires" (P.8-27).**

The Anti-lock Braking System (ABS) controls the brakes so the wheels do not lock during hard braking or when braking on slippery surfaces. The system detects the rotation speed at each wheel and varies the brake fluid pressure to prevent each wheel from locking and sliding. By preventing each wheel from locking, the system helps the driver maintain steering control and helps to minimize swerving and spinning on slippery surfaces.

Using the system

Depress the brake pedal and hold it down. Depress the brake pedal with firm steady pressure, but do not pump the brakes. The ABS will operate to prevent the wheels from locking up. Steer the vehicle to avoid obstacles.

WARNING

Do not pump the brake pedal. Doing so may result in increased stopping distances.

Self-test feature

The ABS includes electronic sensors, electric pumps, hydraulic solenoids and a computer. The computer has a built-in diagnostic feature that tests the system each time you start the engine and move the vehicle at a low speed in forward or reverse. When the self-test occurs, you may hear a "clunk" noise and/or feel a pulsation in the brake pedal. This is normal and does not indicate a malfunction. If the computer senses a malfunction, it switches the ABS off and illuminates the ABS warning light on the instrument panel. The brake system then operates normally, but without anti-lock assistance.

If the ABS warning light illuminates during the self-test or while driving, have the vehicle checked. It is recommended you visit an INFINITI retailer for this service.

Normal operation

The ABS operates at speeds above 3 to 6 MPH (5 to 10 km/h). The speed varies according to road conditions.

When the ABS senses that one or more wheels are close to locking up, the actuator rapidly applies and releases hydraulic pressure. This action is similar to pumping the brakes very quickly. You may feel a pulsation in the brake pedal and hear a noise from under the hood or feel a vibration from the actuator when it is operating. This is normal and indicates that the ABS is operating properly. However, the pulsation may indicate that road conditions are hazardous and extra care is required while driving.

VEHICLE DYNAMIC CONTROL (VDC) SYSTEM

The Vehicle Dynamic Control (VDC) system uses various sensors to monitor driver inputs and vehicle motion. Under certain driving conditions, the VDC system helps to perform the following functions.

- Controls brake pressure to reduce wheel slip on one slipping drive wheel so power is transferred to a non slipping drive wheel on the same axle.
- Controls brake pressure and engine output to reduce drive wheel slip based on vehicle speed (traction control function).
- Controls brake pressure at individual wheels and engine output to help the driver maintain control of the vehicle in the following conditions:
 - — understeer (vehicle tends to not follow the steered path despite increased steering input)
 - — oversteer (vehicle tends to spin due to certain road or driving conditions).

The VDC system can help the driver to maintain control of the vehicle, but it cannot prevent loss of vehicle control in all driving situations.

When the VDC system operates, the VDC warning light in the instrument panel flashes so note the following:

- The road may be slippery or the system may determine some action is required to help keep the vehicle on the steered path.
- You may feel a pulsation in the brake pedal and hear a noise or vibration from under the hood. This is normal and indicates that the VDC system is working properly.
- Adjust your speed and driving to the road conditions.

If a malfunction occurs in the system, the VDC warning light illuminates in the instrument panel. The VDC system automatically turns off.

The VDC OFF switch is used to turn off the VDC system. The VDC off indicator illuminates to indicate the VDC system is off. When the VDC switch is used to turn off the system, the VDC system still operates to prevent one drive wheel from slipping by transferring power to a non slipping drive wheel. The VDC warning light flashes if this occurs. All other VDC functions are off, and the VDC warning light will not flash. The VDC system is automatically reset to on when the ignition switch is placed in the off position then back to the on position.

When the 4L position is selected with the 4WD shift switch, the VDC system is disabled and the VDC off indicator light illuminates (for 4WD models).

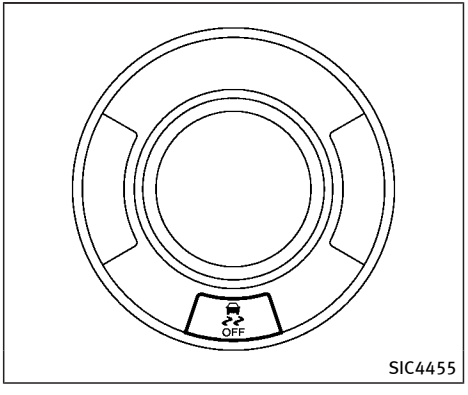
See “Vehicle Dynamic Control (VDC) warning light” (P.2-18) and “Vehicle Dynamic Control (VDC) off indicator light” (P.2-21).

The computer has a built-in diagnostic feature that tests the system each time you start the engine and move the vehicle forward or in reverse at a slow speed. When the self-test occurs, you may hear a “clunk” noise and/or feel a pulsation in the brake pedal. This is normal and is not an indication of a malfunction.

WARNING

- **The VDC system is designed to help improve driving stability but does not prevent accidents due to abrupt steering operation at high speeds or by careless or dangerous driving techniques. Reduce vehicle speed and be especially careful when driving and cornering on slippery surfaces and always drive carefully.**

- **Do not modify the vehicle's suspension. If suspension parts such as shock absorbers, struts, springs, stabilizer bars, bushings and wheels are not INFINITI recommended for your vehicle or are extremely deteriorated, the VDC system may not operate properly. This could adversely affect vehicle handling performance, and the VDC warning light may illuminate.**
- **If brake related parts such as brake pads, rotors and calipers are not INFINITI recommended or are extremely deteriorated, the VDC system may not operate properly and the VDC warning light may illuminate.**
- **If engine control related parts are not INFINITI recommended or are extremely deteriorated, the VDC warning light may illuminate.**
- **When driving on extremely inclined surfaces such as higher banked corners, the VDC system may not operate properly and the VDC warning light may illuminate. Do not drive on these types of roads.**
- **When driving on an unstable surface such as a turntable, ferry, elevator or ramp, the VDC warning light may illuminate. This is not a malfunction. Restart the engine after driving onto a stable surface.**
- **If wheels or tires other than the INFINITI recommended ones are used, the VDC system may not operate properly and the VDC warning light may illuminate.**
- **The VDC system is not a substitute for winter tires or tire chains on a snow covered road.**



VEHICLE DYNAMIC CONTROL (VDC) OFF SWITCH

The vehicle should be driven with the Vehicle Dynamic Control (VDC) system ON for most driving conditions.

When the vehicle is stuck in mud or snow, the VDC system reduces the engine output to reduce wheel spin. The engine speed will be reduced even if the accelerator is depressed to the floor. If maximum engine power is needed to free a stuck vehicle, turn the VDC system off.

To turn off the Vehicle Dynamic Control (VDC) system, push the VDC OFF switch.

The VDC off indicator light will illuminate.

Push the VDC OFF switch again or restart the engine to turn ON the system.

FREEING A FROZEN DOOR LOCK

To prevent a door lock from freezing, apply deicer through the key hole. If the lock becomes frozen, heat the key before inserting it into the key hole or use the Intelligent Key system.

ANTIFREEZE

In the winter when it is anticipated that the outside temperature will drop below 32°F (0°C), check antifreeze to assure proper winter protection. For additional information, see “Engine cooling system” (P.8-4).

BATTERY

If the battery is not fully charged during extremely cold weather conditions, the battery fluid may freeze and damage the battery. To maintain maximum efficiency, the battery should be checked regularly. For additional information, see “Battery” (P.8-12).

DRAINING OF COOLANT WATER

If the vehicle is to be left outside without antifreeze, drain the cooling system, including the engine block. Refill before operating the vehicle. For details, see “Engine cooling system” (P.8-4).

TIRE EQUIPMENT

SUMMER tires have a tread designed to provide superior performance on dry pavement. However, the performance of these tires will be substantially reduced in snowy and icy conditions. If you operate your vehicle on snowy or icy roads, INFINITI recommends the use of MUD & SNOW or ALL SEASON tires on all four wheels. It is recommended you consult an INFINITI retailer for the tire type, size, speed rating and availability information.

For additional traction on icy roads, studded tires may be used. However, some U.S. states and Canadian provinces prohibit their use. Check local, state and provincial laws before installing studded tires.

Skid and traction capabilities of studded snow tires, on wet or dry surfaces, may be poorer than that of non-studded snow tires.

Tire chains may be used. For details, see “Tire chains” (P.8-34).

For four-wheel drive

If you install snow tires, they must also be the same size, brand, construction and tread pattern on all four wheels.

SPECIAL WINTER EQUIPMENT

It is recommended that the following items be carried in the vehicle during winter:

- A scraper and stiff-bristled brush to remove ice and snow from the windows and wiper blades.
- A sturdy, flat board to be placed under the jack to give it firm support.
- A shovel to dig the vehicle out of snowdrifts.
- Extra window washer fluid to refill the reservoir tank.

DRIVING ON SNOW OR ICE

WARNING

- **Wet ice (32°F, 0°C and freezing rain), very cold snow or ice can be slick and very hard to drive on. The vehicle will have much less traction or "grip" under these conditions. Try to avoid driving on wet ice until the road is salted or sanded.**
- **Whatever the condition, drive with caution. Accelerate and slow down with care. If accelerating or downshifting too fast, the drive wheels will lose even more traction.**
- **Allow more stopping distance under these conditions. Braking should be started sooner than on dry pavement.**
- **Allow greater following distances on slippery roads.**
- **Watch for slippery spots (glare ice). These may appear on an otherwise clear road in shaded areas. If a patch of ice is seen ahead, brake before reaching it. Try not to brake while on the ice, and avoid any sudden steering maneuvers.**
- **Do not use the cruise control on slippery roads.**
- **Snow can trap dangerous exhaust gases under your vehicle. Keep snow clear of the exhaust pipe and from around your vehicle.**

ENGINE BLOCK HEATER (if so equipped)

Engine block heaters are used to assist in cold temperature starting.

The engine block heater should be used when the outside temperature is 20°F (–7°C) or lower.

To use the engine block heater

1. Turn the engine off.
2. Open the hood and unwrap the engine block heater cord.
3. Plug the engine block heater cord into a grounded 3-wire, 3-pronged extension cord.
4. Plug the extension cord into a Ground Fault Interrupt (GFI) protected, grounded 110-volt AC (VAC) outlet.
5. The engine block heater must be plugged in for at least 2 - 4 hours, depending on outside temperatures, to properly warm the engine coolant. Use an appropriate timer to turn the engine block heater on.
6. Before starting the engine, unplug and properly store the cord to keep it away from moving parts.

WARNING

- **Do not use your engine block heater with an ungrounded electrical system or a 2-pronged adapter. You can be seriously injured by an electrical shock if you use an ungrounded connection.**

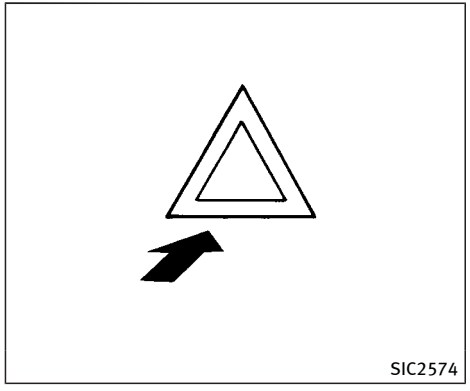
- **Disconnect and properly store the engine block heater cord before starting the engine. Damage to the cord could result in an electrical shock and can cause serious injury.**
- **Use a heavy-duty 3-wire, 3-pronged extension cord rated for at least 10A. Plug the extension cord into a Ground Fault Interrupt (GFI) protected, grounded 110-VAC outlet. Failure to use the proper extension cord or a grounded outlet can result in a fire or electrical shock and cause serious personal injury.**

MEMO

6 In case of emergency

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Roadside assistance program 6-2
Emergency engine shut off 6-3
Flat tire 6-3
Tire Pressure Monitoring System (TPMS) 6-3
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Towing your vehicle 6-15
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HAZARD WARNING FLASHER SWITCH



Push the switch on to warn other drivers when you must stop or park under emergency conditions. All turn signal lights will flash.

WARNING

- **If stopping for an emergency, be sure to move the vehicle well off the road.**
- **Do not use the hazard warning flashers while moving on the highway unless unusual circumstances force you to drive so slowly that your vehicle might become a hazard to other traffic.**
- **Turn signals do not work when the hazard warning flasher lights are on.**

The flasher can be actuated with the ignition switch in any position.

When an impact that could activate the supplemental air bags is detected, the hazard warning flasher lights blink automatically. If the hazard warning flasher switch is pushed twice, the hazard warning flashers will turn off.

WARNING

Do not turn the hazard warning flasher switch to off until you can make sure that it is safe to do so. Also, the hazard flasher warning may not blink automatically depending on the force of impact.

Some state laws may prohibit the use of the hazard warning flasher switch while driving.

ROADSIDE ASSISTANCE PROGRAM

In the event of a roadside emergency, Roadside Assistance Service is available to you. Please refer to your Warranty Information Booklet (U.S.) or Warranty & Roadside Assistance Information Booklet (Canada) for details.

EMERGENCY ENGINE SHUT OFF

To shut off the engine in an emergency situation while driving, perform the following procedure:

- Rapidly push the push-button ignition switch 3 consecutive times in less than 1.5 seconds, or
- Push and hold the push-button ignition switch for more than 2 seconds.

FLAT TIRE

TIRE PRESSURE MONITORING SYSTEM (TPMS)

This vehicle is equipped with the Tire Pressure Monitoring System (TPMS). It monitors tire pressure of all tires except the spare. When the low tire pressure warning light is lit and the CHECK TIRE PRESSURE warning appears in the vehicle information display, one or more of your tires is significantly under-inflated. If the vehicle is being driven with low tire pressure, the TPMS will activate and warn you of it by the low tire pressure warning light. This system will activate only when the vehicle is driven at speeds above 16 MPH (25 km/h). For more details, see “Warning lights, indicator lights and audible reminders” (P.2-11), “TIRE PRESSURE information” (P.4-9) and “Tire Pressure Monitoring System (TPMS)” (P.5-5).

WARNING

- **If the low tire pressure warning light illuminates or LOW PRESSURE information is displayed on the monitor screen while driving, avoid sudden steering maneuvers or abrupt braking, reduce vehicle speed, pull off the road to a safe location and stop the vehicle as soon as possible. Driving with under-inflated tires may permanently damage the tires and increase the likelihood of tire failure. Serious vehicle damage could occur and may lead to an accident and could result in serious personal injury. Check the tire pressure for all four tires. Adjust the tire pressure to the recommended COLD tire pressure shown on the Tire and Loading Information label to turn the low tire pressure warning light OFF. If the light still illuminates while driving after adjusting the tire pressure, a tire may be flat. If you have a flat tire, replace it with a spare tire as soon as possible.**
- **Since the spare tire is not equipped with the TPMS, when a spare tire is mounted or a wheel is replaced, the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute. The light will remain on after 1 minute. Have your tires replaced and/or TPMS system reset as soon as possible. It is recommended you visit an INFINITI retailer for these services.**
- **Replacing tires with those not originally specified by INFINITI could affect the proper operation of the TPMS.**

- **Do not inject any tire liquid or aerosol tire sealant into the tires, as this may cause a malfunction of the tire pressure sensors.**

CHANGING A FLAT TIRE

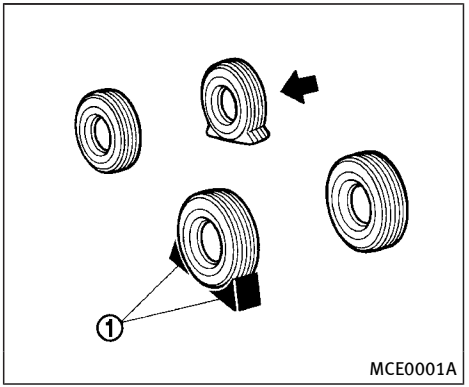
If you have a flat tire, follow the instructions below.

Stopping the vehicle

1. Safely move the vehicle off the road and away from traffic.
2. Turn on the hazard warning flashers.
3. Park on a level surface and apply the parking brake. Move the shift lever to the P (Park) position.
4. Turn off the engine.
5. Raise the hood to warn other traffic, and to signal professional road assistance personnel that you need assistance.
6. Have all passengers get out of the vehicle and stand in a safe place, away from traffic and clear of the vehicle.

WARNING

- **Make sure the parking brake is securely applied and the automatic transmission is in the P (Park) position.**
- **Never change tires when the vehicle is on a slope, ice or slippery areas. This is hazardous.**
- **Never change tires if oncoming traffic is close to your vehicle. Wait for professional road assistance.**

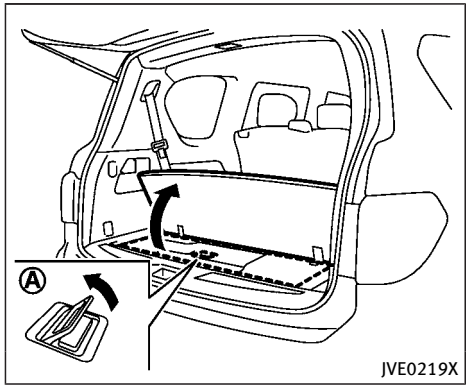


Blocking wheels

Place suitable blocks ① at both the front and back of the wheel diagonally opposite the flat tire to prevent the vehicle from moving when it is jacked up.

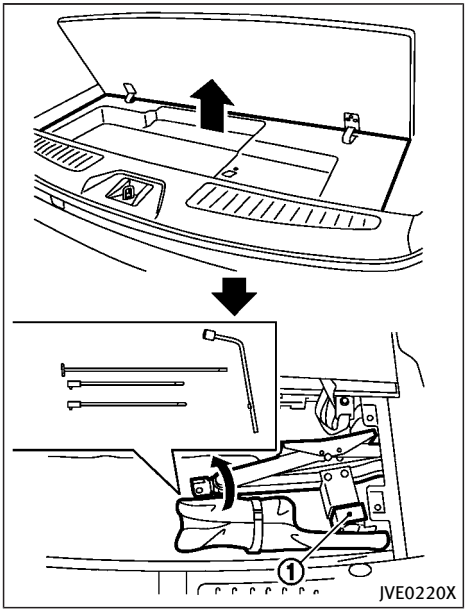
WARNING

Be sure to block the wheel as the vehicle may move and result in personal injury.



Getting the spare tire and tools

1. Open the liftgate.
2. Raise the cargo floor board using the handle Ⓐ.

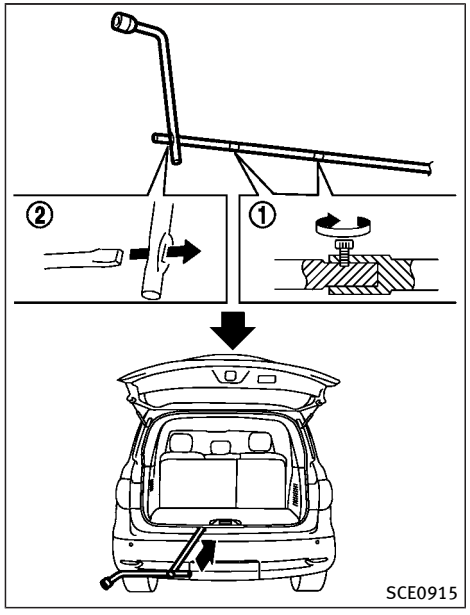


WARNING

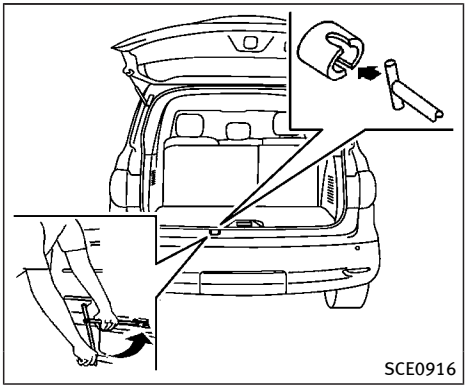
When removing jacking tools, be sure the rubber sound suppressor ①, used to control jack stand from rattling against metal, is not attached to the jacking tool.

If rubber sound suppressor remains on jack when vehicle is being jacked up, the vehicle will be unstable and may fall off jack stand causing serious injury of death.

3. Remove the cargo floor cover.
4. Remove the jacking tools.



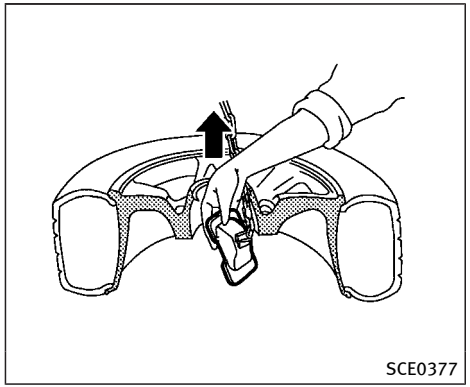
5. Securely screw to connect the T-shaped end of the jack rod and two extension bars ① as illustrated.
6. Fit the square end of the jack rod into the square hole of the wheel nut wrench to form a handle ②.
7. Locate the oval opening above the middle of the rear bumper.
8. Place the T-shaped end of the jack rod through the opening and direct it towards the spare wheel winch assembly, located directly above the spare wheel.



CAUTION

Do not insert the jack rod straight as it is designed to be inserted at an angle as shown.

9. Seat the T-shaped end of the jack rod into the T-shaped opening of the spare wheel winch. Apply pressure to keep the jack rod engaged in the spare wheel winch and turn the jack rod counterclockwise to lower the spare wheel.

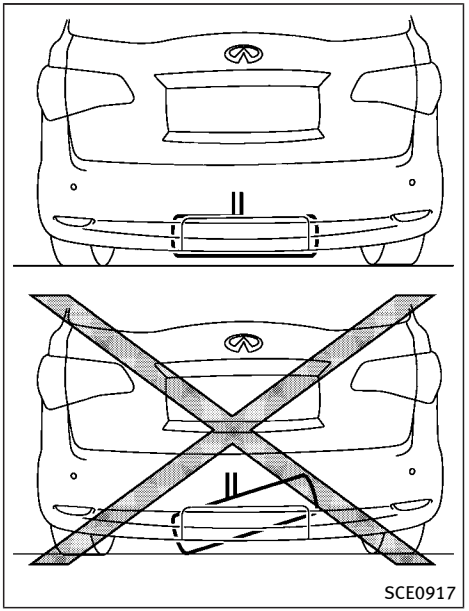

SCE0377

10. Once the spare wheel is completely lowered, remove the jack rod and reach under the vehicle to remove the hanging plate.
11. Carefully slide the spare wheel from under the rear of the vehicle.

After preparing the spare tire, to remove the rod, pull out the rod while moving the rod to the right and left with the screw of the extension facing the side.

CAUTION

When storing the wheel, make sure that the hanging plate is in the center of the wheel and then lift it up into the storage area.


SCE0917

CAUTION

When storing the wheel, be sure to mount the wheel horizontally. Securing the wheel that is in a tilted position as illustrated may cause looseness and dropping of the wheel

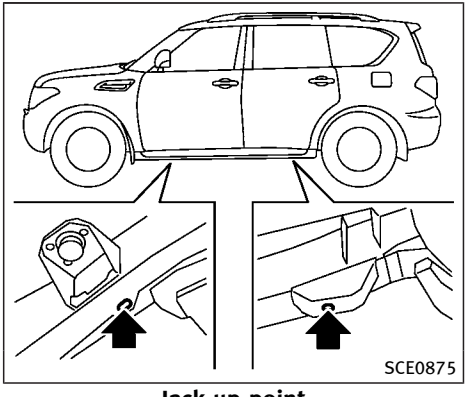
while driving. Lower the wheel on the ground again, and make sure that the hanging plate is properly set. Hang the wheel again and make sure that the wheel is held horizontally, then store the wheel.

Jacking up the vehicle and removing the damaged tire

⚠ WARNING

- **Never get under the vehicle while it is supported only by the jack. If it is necessary to work under the vehicle, support it with safety stands.**
- **Use only the jack provided with your vehicle to lift the vehicle. Do not use the jack provided with your vehicle on other vehicles. The jack is designed for lifting only your vehicle during a tire change.**
- **Use the correct jack-up points. Never use any other part of the vehicle for jack support.**
- **Never jack up the vehicle more than necessary.**
- **Never use blocks on or under the jack.**
- **Do not start or run the engine while vehicle is on the jack, as it may cause the vehicle to move. This is especially true for vehicles with limited slip differentials.**
- **Do not allow passengers to stay in the vehicle while it is on the jack.**

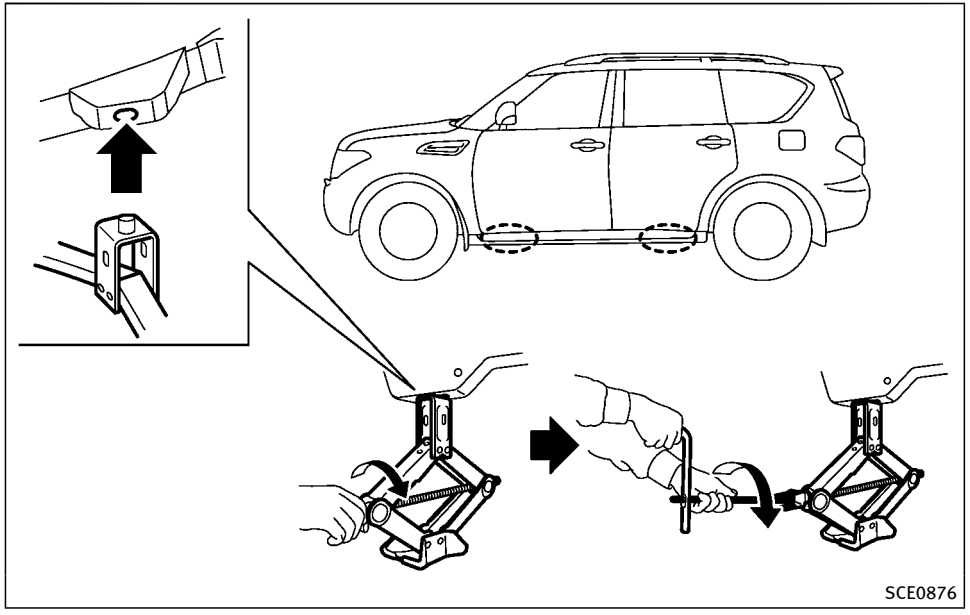
Carefully read the caution label attached to the jack body and the following instructions.



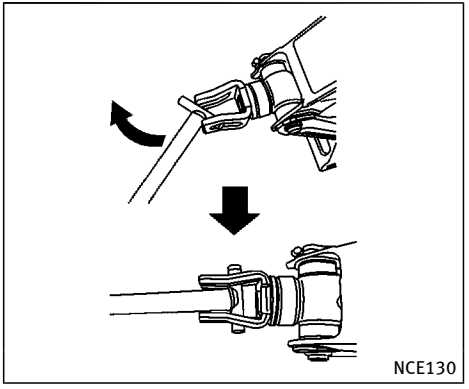
Jack-up point

1. Place the jack directly under the jack-up points as illustrated.

 The jack should be used on level firm ground.



2. Loosen each wheel nut one or two turns by turning counterclockwise with the wheel nut wrench. **Do not remove the wheel nuts until the tire is off the ground.**

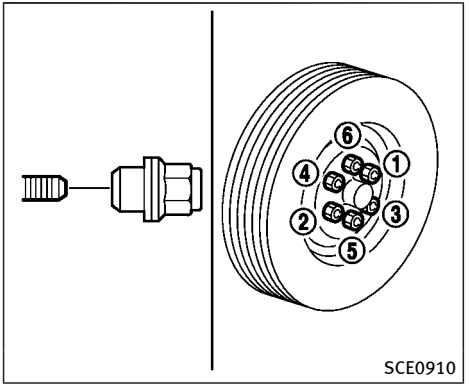


3. Install the assembled jack rod into the jack as shown.
4. Carefully raise the vehicle until the clearance between the tire and ground is achieved.
5. To lift the vehicle, securely hold the jack lever and rod with both hands and turn the jack lever.

NOTE:

Before jacking up the vehicle, make sure the ignition switch is placed in the OFF position. If the vehicle is lifted up with the engine running, the auto-leveling suspension will become disabled after 120

seconds. To reset the auto-leveling suspension, cycle the ignition switch ON/OFF one time.



Installing the spare tire

The full-size temporary use only spare tire (if so equipped) is designed for emergency use. (See specific instructions under the heading "Wheels and tires" (P.8-27).)

1. Clean any mud or dirt from the surface between the wheel and hub.
2. Carefully put the spare tire on and tighten the wheel nuts finger tight.
3. With the wheel nut wrench, tighten wheel nuts alternately and evenly in the sequence illustrated (①, ②, ③, ④, ⑤, ⑥) until they are tight.
4. Lower the vehicle slowly until the tire touches the ground. Then, with the wheel nut wrench, tighten the wheel nuts securely in the sequence as illustrated. Lower the vehicle completely.

WARNING

- **Incorrect wheel nuts or improperly tightened wheel nuts can cause the wheel to become loose or come off. This could cause an accident.**
- **Do not use oil or grease on the wheel studs or nuts. This could cause the nuts to become loose.**
- **Retighten the wheel nuts when the vehicle has been driven for 600 miles (1,000 km) (also in cases of a flat tire, etc.).**

- **As soon as possible, tighten the wheel nuts to the specified torque with a torque wrench.**

 Wheel nut tightening torque:
 98 ft-lb (133 N·m)

 The wheel nuts must be kept tightened to specification at all times. It

is recommended that wheel nuts be tightened to specifications at each lubrication interval.

- **Adjust tire pressure to the COLD pressure.**

 COLD pressure:

 After the vehicle has been parked for three hours or more or driven less than 1 mile (1.6 km).

 COLD tire pressures are shown on the Tire and Loading Information label affixed to the driver side center pillar.

After adjusting tire pressure to the COLD tire pressure, the display of the tire pressure information may show higher pressure than the COLD tire pressure after the vehicle has been driven more than 1 mile (1.6 km). This is because the tire pressurizes as the tire temperature rises. This does not indicate a system malfunction.

Stowing the damaged tire and tools

1. Securely store the damaged tire, jack and tools in the storage area.
2. Close the cargo floor cover.
3. Replace the cargo floor board.
4. Close the liftgate.

WARNING

- **Always make sure that the spare tire and jacking equipment are properly secured after use. Such items can become dangerous projectiles in an accident or sudden stop.**
- **The full-size temporary use only spare tire (if so equipped) is designed for emergency use. (See specific instructions under the heading “Wheels and tires” (P.8-27).)**

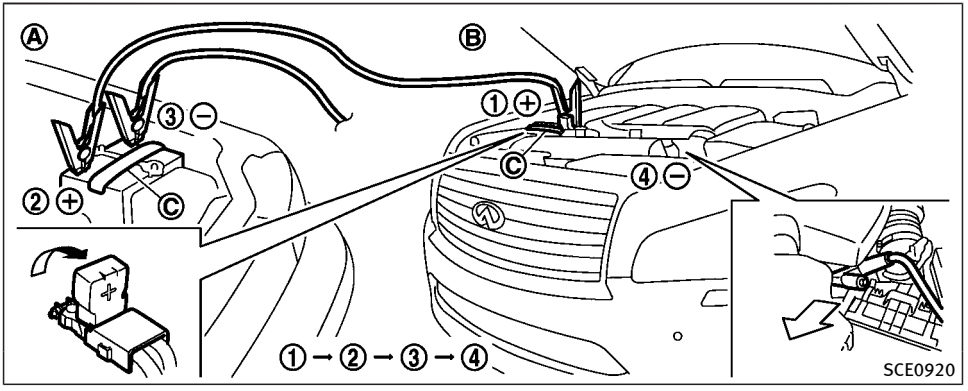
JUMP STARTING

To start your engine with a booster battery, the instructions and precautions below must be followed.

WARNING

- **If done incorrectly, jump starting can lead to a battery explosion, resulting in severe injury or death. It could also damage your vehicle.**
- **Explosive hydrogen gas is always present in the vicinity of the battery. Keep all sparks and flames away from the battery.**
- **Do not allow battery fluid to come into contact with eyes, skin, clothing or painted surfaces. Battery fluid is a corrosive sulphuric acid solution which can cause severe burns. If the fluid should come into contact with anything, immediately flush the contacted area with water.**
- **Keep the battery out of the reach of children.**
- **The booster battery must be rated at 12 volts. Use of an improperly rated battery can damage your vehicle.**

- **Whenever working on or near a battery, always wear suitable eye protectors (for example, goggles or industrial safety spectacles) and remove rings, metal bands, or any other jewelry. Do not lean over the battery when jump starting.**
- **Do not attempt to jump start a frozen battery. It could explode and cause serious injury.**
- **Your vehicle has an automatic engine cooling fan. It could come on at any time. Keep hands and other objects away from it.**



WARNING

Always follow the instructions below. Failure to do so could result in damage to the charging system and cause personal injury.

1. Remove the engine compartment cover, if necessary. See “Engine compartment check locations” (P.8-3).
2. If the booster battery is in another vehicle Ⓐ, position the two vehicles (Ⓐ and Ⓑ) to bring their batteries into close proximity to each other. **Do not allow the two vehicles to touch.**
3. Apply parking brake. Move the shift lever to the P (Park) position. Switch off all unnecessary electrical systems (light, heater, air conditioner, etc.).
4. Remove vent caps on the battery (if so equipped). Cover the battery with a firmly wrung out moist cloth Ⓒ to reduce explosion hazard.
5. Connect jumper cables in the sequence as illustrated (① → ② → ③ → ④).

CAUTION

- **Always connect positive (+) to positive (+) and negative (–) to body ground (as illustrated) — not to the battery.**
- **Make sure the jumper cables do not touch moving parts in the engine compartment and that clamps do not contact any other metal.**

6. Start the engine of the booster vehicle Ⓐ and let it run for a few minutes.
7. Keep the engine speed of the booster vehicle Ⓐ at about 2,000 rpm, and start the engine of the vehicle being jump started Ⓑ.

CAUTION

Do not keep the starter motor engaged for more than 10 seconds. If the engine does not start right away, push the ignition switch to the OFF position and wait 10 seconds before trying again.

8. After starting your engine, carefully disconnect the negative cable and then the positive cable (④ → ③ → ② → ①).
9. Replace the vent caps (if so equipped). Be sure to dispose of the cloth used to cover the vent holes as it may be contaminated with corrosive acid.
10. Put the battery cover on.

PUSH STARTING

Do not attempt to start the engine by pushing.

CAUTION

- **Automatic transmission models cannot be push-started or tow-started. Attempting to do so may cause transmission damage.**
- **Three way catalyst equipped models should not be started by pushing since the three way catalyst may be damaged.**
- **Never try to start the vehicle by towing it; when the engine starts, the forward surge could cause the vehicle to collide with the tow vehicle.**

CAUTION

- **Do not continue to drive if your vehicle overheats. Doing so could cause engine damage or a vehicle fire.**
- **To avoid the danger of being scalded, never remove the radiator cap or coolant reservoir cap while the engine is still hot. When the radiator cap or coolant reservoir cap is removed, pressurized hot water will spurt out, possibly causing serious injury.**
- **Do not open the hood if steam is coming out.**

If your vehicle is overheating (indicated by an extremely high temperature gauge reading), or if you feel a lack of engine power, detect abnormal noise, etc., take the following steps:

1. Move the vehicle safely off the road, apply the parking brake and move the shift lever to the P (Park) position.

 Do not stop the engine.
2. Turn off the climate control. Open all the windows, move the heater or air conditioner temperature control to maximum hot and fan control to high speed.
3. If engine overheating is caused by climbing a long hill on a hot day, run the engine at a fast idle (approximately 1,500 rpm) until the temperature gauge indication returns to normal.
4. Get out of the vehicle. Look and listen for steam or coolant escaping from the radiator before opening the hood. (If steam or coolant is escaping, turn off the engine.) Do not open the hood further until no steam or coolant can be seen.
5. Open the engine hood.

WARNING

If steam or water is coming from the engine, stand clear to prevent getting burned.

6. Visually check drive belts for damage or looseness. Also check if the cooling fan is running. The radiator hoses and radiator should not leak water. If coolant is leaking or the cooling fan does not run, stop the engine.

WARNING

Be careful not to allow your hands, hair, jewelry or clothing to come into contact with, or get caught in, engine belts or the engine cooling fan. The engine cooling fan can start at any time.

7. After the engine cools down, check the coolant level in the reservoir tank with the engine running. Add coolant to the reservoir tank if necessary. Have your vehicle repaired. It is recommended you visit an INFINITI retailer for this service.

TOWING YOUR VEHICLE

When towing your vehicle, all State (Provincial in Canada) and local regulations for towing must be followed. Incorrect towing equipment could damage your vehicle. Towing instructions are available from an INFINITI retailer. Local service operators are familiar with the applicable laws and procedures for towing. To assure proper towing and to prevent accidental damage to your vehicle, INFINITI recommends that you have a service operator tow your vehicle. It is advisable to have the service operator carefully read the following precautions.

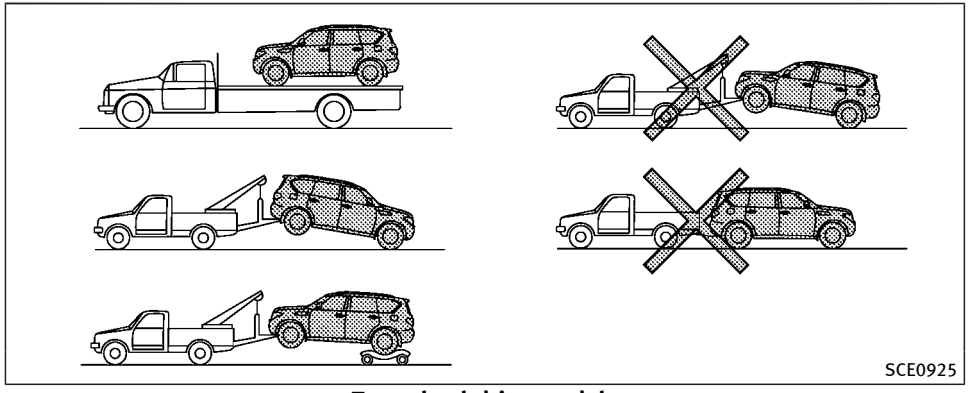
WARNING

- **Never ride in a vehicle that is being towed.**
- **Never get under your vehicle after it has been lifted by a tow truck.**

CAUTION

- **When towing, make sure that the transmission, axles, steering system and powertrain are in working condition. If any of these conditions apply, dollies or a flatbed tow truck must be used.**
- **Always attach safety chains before towing.**

For information about towing your vehicle behind a recreational vehicle (RV), see “Flat towing” (P.10-30).



Two-wheel drive models

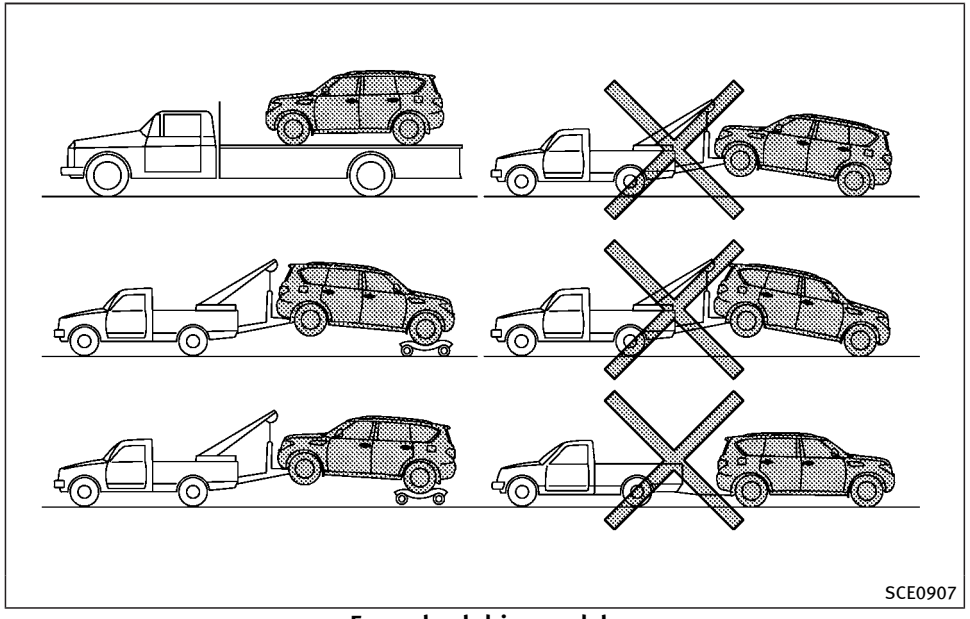
TOWING RECOMMENDED BY INFINITI

Two-Wheel Drive (2WD) models

INFINITI recommends that your vehicle be towed with the driving (rear) wheels off the ground or place the vehicle on a flat bed truck as illustrated.

CAUTION

- **Never tow automatic transmission models with the rear wheels on the ground or four wheels on the ground (forward or backward), as this may cause serious and expensive damage to the transmission. If it is necessary to tow the vehicle with the front wheels raised, always use towing dollies under the rear wheels.**
- **When towing rear wheel drive models with the front wheels on the ground or on towing dollies: Place the ignition in the ACC or ON position, and secure the steering wheel in a straight-ahead position with a rope or similar device.**



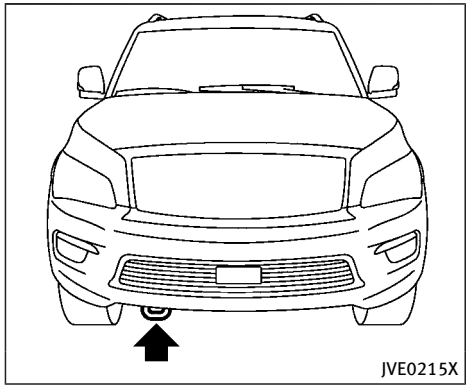
Four-wheel drive models

Four-wheel Drive (4WD) models

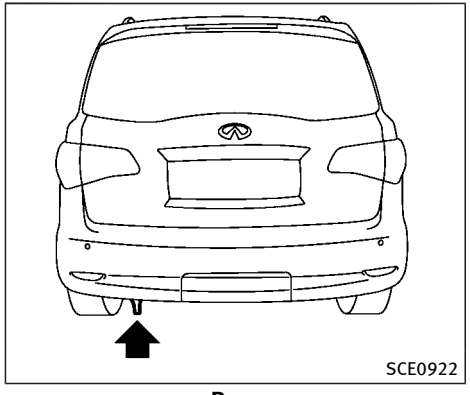
INFINITI recommends that towing dollies be used when towing your vehicle or the vehicle be placed on a flat bed truck as illustrated.

CAUTION

Never tow 4WD models with any of the wheels on the ground as this may cause serious and expensive damage to the powertrain.



Front



Rear

VEHICLE RECOVERY (freeing a stuck vehicle)

WARNING

- **Stand clear of a stuck vehicle.**
- **Do not spin your tires at high speed. This could cause them to explode and result in serious injury. Parts of your vehicle could also overheat and be damaged.**

Pulling a stuck vehicle

If your vehicle is stuck in sand, snow, mud, etc., use a tow strap or other device designed specifically for vehicle recovery. Always follow the manufacturer's instructions for the recovery device.

Attach the tow strap to the towing hook.

CAUTION

- **Tow chains or cables must be attached only to the main structural members of the vehicle or the towing hooks. Otherwise, the vehicle body will be damaged.**
- **Use the towing hook only to free a vehicle stuck in sand, snow, mud, etc. Never tow the vehicle for a long distance using only the towing hook.**
- **The towing hook is under tremendous force when used to free a stuck vehicle. Never pull the hook at an angle.**
- **Always pull the cable straight out from the front or rear of the vehicle.**
- **Pulling devices should be routed so they do not touch any part of the suspension, steering, brake or cooling systems.**
- **Pulling devices such as ropes or canvas straps are not recommended for use in vehicle towing or recovery.**

Rocking a stuck vehicle

If your vehicle is stuck in sand, snow, mud, etc., use the following procedure:

1. Turn off the Vehicle Dynamic Control (VDC) system.
2. Make sure the area in front and behind the vehicle is clear of obstructions.
3. Turn the steering wheel right and left to clear an area around the front tires.
4. Slowly rock the vehicle forward and backward.

- Shift back and forth between R (Reverse) and D (Drive).
- Apply the accelerator as little as possible to maintain the rocking motion.
- Release the accelerator pedal before shifting between R and D.
- Do not spin the tires above 35 MPH (55 km/h).

5. If the vehicle cannot be freed after a few tries, contact a professional towing service to remove the vehicle.

MEMO

7 Appearance and care

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CLEANING EXTERIOR

In order to maintain the appearance of your vehicle, it is important to take proper care of it.

To protect the paint surface, wash your vehicle as soon as you can:

- after a rainfall to prevent possible damage from acid rain
- after driving on coastal roads
- when contaminants such as soot, bird droppings, tree sap, metal particles or bugs get on the paint surface
- when dust or mud builds up on the surface

Whenever possible, store or park your vehicle inside a garage or in a covered area.

When it is necessary to park outside, park in a shady area or protect the vehicle with a body cover.

Be careful not to scratch the paint surface when putting on or removing the body cover.

WASHING

Wash dirt off the vehicle with a wet sponge and plenty of water. Clean the vehicle thoroughly using a mild soap, a special vehicle soap or general purpose dishwashing liquid mixed with clean, lukewarm (never hot) water.

CAUTION

- **Do not use car washes that use acid in the detergent. Some car washes, especially brushless ones, use some acid for cleaning. The acid may react with some plastic vehicle components, causing them to crack. This could affect their appearance, and also could cause them not to function properly. Always check with your car wash to confirm that acid is not used.**
- **Do not wash the vehicle with strong household soap, strong chemical detergents, gasoline or solvents.**
- **Do not wash the vehicle in direct sunlight or while the vehicle body is hot, as the surface may become water-spotted.**
- **Avoid using tight-napped or rough cloths, such as washing mitts. Care must be taken when removing caked-on dirt or other foreign substances so the paint surface is not scratched or damaged.**
- **Lock all doors before going through automatic car wash. Locking doors helps prevent fuel-filler door from opening and becoming damaged.**

Rinse the vehicle again with plenty of clean water.

Inside flanges, seams and folds on the doors, hatches and hood are particularly vulnerable to the effects of road salt. Therefore, these areas must be regularly cleaned. Make sure that the drain holes in the lower edge of the door are open. Spray water under the body and in the wheel wells to loosen the dirt and wash away road salt.

Avoid leaving water spots on the paint surface by using a damp chamois to dry the vehicle.

WAXING

Regular waxing protects the paint surface and helps retain new vehicle appearance. Polishing is recommended to remove built-up wax residue and to avoid a weathered appearance before reapplying wax.

An INFINITI retailer can assist you in choosing the proper product.

- Wax your vehicle only after a thorough washing. Follow the instructions supplied with the wax.
- Do not use a wax containing any abrasives, cutting compounds or cleaners that may damage the vehicle finish.

Machine compound or aggressive polishing on a base coat/clear coat paint finish may dull the finish or leave swirl marks.

REMOVING SPOTS

Remove tar and oil spots, industrial dust, insects, and tree sap as quickly as possible from the paint surface to avoid lasting damage or staining. Special cleaning products are available at an INFINITI retailer or any automotive accessory stores.

UNDERBODY

In areas where road salt is used in winter, the underbody must be cleaned regularly. This will prevent dirt and salt from building up and causing the acceleration of corrosion on the underbody and suspension. Before the winter period and again in the spring, the underseal must be checked and, if necessary, re-treated.

GLASS

Use glass cleaner to remove smoke and dust film from the glass surfaces. It is normal for glass to become coated with a film after the vehicle is parked in the hot sun. Glass cleaner and a soft cloth will easily remove this film.

CAUTION

When cleaning the inside of the windows, do not use sharp-edged tools, abrasive cleaners or chlorine-based disinfectant cleaners. They could damage the electrical conductors, radio antenna elements or rear window defroster elements.

WHEELS

Wash the wheels when washing the vehicle to maintain their appearance.

- Clean the inner side of the wheels when the wheel is changed or the underside of the vehicle is washed.
- Inspect wheel rims regularly for dents or corrosion. Such damage may cause loss of pressure or poor seal at the tire bead.
- INFINITI recommends that the road wheels be waxed to protect against road salt in areas where it is used during winter.

CAUTION

Do not use abrasive cleaners when washing the wheels.

Aluminum alloy wheels

Wash regularly with a sponge dampened in a mild soap solution, especially during winter months in areas where road salt is used. Salt could discolor the wheels if not removed.

CAUTION

Follow the directions below to avoid staining or discoloring the wheels:

- **Do not use a cleaner that uses strong acid or alkali contents to clean the wheels.**
- **Do not apply wheel cleaners to the wheels when they are hot. The wheel temperature should be the same as ambient temperature.**
- **Rinse the wheel to completely remove the cleaner within 15 minutes after the cleaner is applied.**

Bright wheels (if so equipped)

The bright wheels use a different coating process than typical aluminum alloy wheel and they are not plated wheels. These wheels are clear-coated and require the following special cleaning. They should be regularly washed with a soft sponge soaked in a lot of water. After washing with water, wipe clean with a dry, soft cloth and dry completely. When there is chemical or tire wax, or dirt such as an antifreeze agent on the surface, wash them with water as soon as possible.

CAUTION

- **The surfaces of the wheels use a different coating process than typical aluminum alloy wheels. Do not use aluminum alloy wheel cleaners or abrasive cleaners to clean the wheels. Using such cleaners could damage the wheel surfaces.**
- **Do not use an automatic car wash if the vehicle is equipped with bright wheels. The wheel coating may be damaged.**
- **Do not use a brush to wash the wheels if the vehicle is equipped with bright wheels. The wheel coating may be damaged.**

CHROME PARTS

Clean chrome parts regularly with a non-abrasive chrome polish to maintain the finish.

TIRE DRESSING

INFINITI does not recommend the use of tire dressings. Tire manufacturers apply a coating to the tires to help reduce discoloration of the rubber. If a tire dressing is applied to the tires, it may react with the coating and form a compound. This compound may come off the tire while driving and stain the vehicle paint.

If you choose to use a tire dressing, take the following precautions:

- Use a water-based tire dressing. The coating on the tire dissolves more easily with an oil-based tire dressing.
- Apply a light coat of tire dressing to help prevent it from entering the tire tread/grooves (where it would be difficult to remove).
- Wipe off excess tire dressing using a dry towel. Make sure the tire dressing is completely removed from the tire tread/grooves.
- Allow the tire dressing to dry as recommended by tire dressing manufacturer.

CLEANING INTERIOR

Occasionally remove loose dust from the interior trim, plastic parts and seats using a vacuum cleaner or soft bristled brush. Wipe the vinyl and leather surfaces with a clean, soft cloth dampened in mild soap solution, then wipe clean with a dry soft cloth.

Regular care and cleaning is required in order to maintain the appearance of the leather.

Before using any fabric protector, read the manufacturer's recommendations. Some fabric protectors contain chemicals that may stain or bleach the seat material.

Use a cloth dampened only with water, to clean the meter and gauge lens.

WARNING

Do not use water or acidic cleaners (hot steam cleaners) on the seat. This can damage the seat or occupant classification sensors. This can also affect the operation of the air bag system and result in serious personal injury.

CAUTION

- **Never use benzine, thinner, or any similar material.**
- **For cleaning, use a soft cloth, dampened with water. Never use a rough cloth, alcohol, benzine, thinner or any kind of solvent or paper towel with a chemical cleaning agent. They will scratch or cause discoloration to the lens.**
- **Do not spray any liquid such as water on the meter lens. Spraying liquid may cause the system to malfunction.**
- **Small dirt particles can be abrasive and damaging to the leather surfaces and should be removed promptly. Do not use saddle soap, car waxes, polishes, oils, cleaning fluids, solvents, detergents or ammonia-based cleaners as they may damage the leather's natural finish.**
- **Only use fabric protectors approved by INFINITI.**
- **Do not use glass or plastic cleaner on meter or gauge lens covers. It may damage the lens cover.**

AIR FRESHENERS

Most air fresheners use a solvent that could affect the vehicle interior. If you use an air freshener, take the following precautions:

- Hanging-type air fresheners can cause permanent discoloration when they contact vehicle interior surfaces. Place the air freshener in a location that allows it to hang free and not contact an interior surface.
- Liquid-type air fresheners typically clip on the vents. These products can cause immediate damage and discoloration when spilled on interior surfaces.

Carefully read and follow the manufacturer's instructions before using air fresheners.

SUEDE MATERIAL (LIMITED models)

The ceiling, moonroof sunshade and pillar trim are made from a suede material.

Clean the suede material as follows:

CAUTION

To help prevent damaging the suede material parts while cleaning:

- **Do not rub the material with a cloth. Doing so can damage the surface of the material or cause a stain to spread.**
- **Never use benzine, thinner or any similar chemical to clean the suede. This may discolor the material and damage the surface.**
- **Clean water or oil based stains by patting the surface with a clean soft cloth dampened in warm water. Press a clean dry cloth onto the surface to remove as much dampness as possible and then let air dry.**

OPEN PORE MATTE FINISH WOOD TRIM (LIMITED models)

The wood trim on the LIMITED models uses a different coating process than a typical wood trim. Improper care can affect the appearance of the wood trim and cause damage to it.

CAUTION

- **Do not hit the wood trim with a hard or sharp object.**
- **Do not rub the wood trim surface hard.**
- **When cleaning, use a soft, dampened cloth (such as a microfiber cloth). Dry with a clean soft cloth.**
- **Do not use waxes, polishes, compounds or solvents to clean the wood trim.**

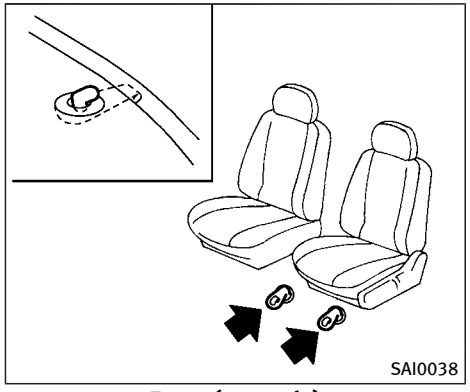
FLOOR MATS

WARNING

To avoid potential pedal interference that may result in a collision, injury or death:

- **NEVER place a floor mat on top of another floor mat in the driver front position or install them upside down or backwards.**
- **Use only genuine INFINITI floor mats or equivalent floor mats that are specifically designed for use in your vehicle model and model year.**
- **Properly position the mats in the floorwell using the floor mat positioning hooks. See “Floor mat installation” (P.7-7).**
- **Make sure the floor mat does not interfere with pedal operation.**
- **Periodically check the floor mats to make sure they are properly installed.**
- **After cleaning the vehicle interior, check the floor mats to make sure they are properly installed.**

The use of genuine INFINITI floor mats can extend the life of your vehicle carpet and make it easier to clean the interior. Mats should be maintained with regular cleaning and replaced if they become excessively worn.



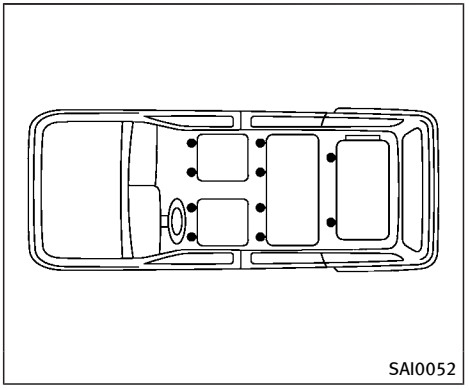
Front (example)

Floor mat installation

Your vehicle is equipped with floor mat positioning hook(s). The number and shape of the floor mat positioning hooks for each seating position varies depending on the vehicle.

When installing genuine INFINITI floor mats, follow the installation instructions provided with the floor mat and the following:

1. Position the floor mat in the floorwell so that the mat grommet holes are aligned with the hook(s).
2. Secure the grommet holes into the hook(s) and ensure that the floor mat is properly positioned.
3. Make sure the floor mat does not interfere with pedal operation. With the ignition in the OFF position and the shift lever in the P (Park) position, fully apply and release all pedals. The floor mat must not interfere with pedal operation or prevent the pedal from returning to its normal position. It is recommended you see an INFINITI retailer for details about installing the floor mats in your vehicle.



Bracket positions

The illustration shows the location of the floor mat positioning hooks.

SEAT BELTS

The seat belts can be cleaned by wiping them with a sponge dampened in a mild soap solution. Allow the belts to dry completely before using them.

See “Seat belts” (P.1-19).

WARNING

Do not allow wet seat belts to roll up in the retractor. NEVER use bleach, dye, or chemi-

cal solvents to clean the seat belts, since these materials may severely weaken the seat belt webbing.

MOST COMMON FACTORS CONTRIBUTING TO VEHICLE CORROSION

- The accumulation of moisture-retaining dirt and debris in body panel sections, cavities, and other areas.
- Damage to paint and other protective coatings caused by gravel and stone chips or minor traffic accidents.

ENVIRONMENTAL FACTORS INFLUENCE THE RATE OF CORROSION

Moisture

Accumulation of sand, dirt and water on the vehicle body underside can accelerate corrosion. Wet floor coverings will not dry completely inside the vehicle, and should be removed for drying to avoid floor panel corrosion.

Relative humidity

Corrosion will be accelerated in areas of high relative humidity, especially those areas where the temperatures stay above freezing where atmospheric pollution exists, or where road salt is used.

Temperature

A temperature increase will accelerate the rate of corrosion to those parts which are not well ventilated.

Air pollution

Industrial pollution, the presence of salt in the air in coastal areas, or heavy road salt use will accelerate the corrosion process. Road salt will also accelerate the disintegration of paint surfaces.

TO PROTECT YOUR VEHICLE FROM CORROSION

- Wash and wax your vehicle often to keep the vehicle clean.
- Always check for minor damage to the paint and repair it as soon as possible.
- Keep drain holes at the bottom of the doors open to avoid water accumulation.
- Check the underbody for accumulation of sand, dirt or salt. If present, wash with water as soon as possible.

CAUTION

- **NEVER remove dirt, sand or other debris from the passenger compartment by washing it out with a hose. Remove dirt with a vacuum cleaner.**
- **Never allow water or other liquids to come in contact with electronic components inside the vehicle as this may damage them.**

Chemicals used for road surface deicing are extremely corrosive. They accelerate corrosion and deterioration of underbody components such as the exhaust system, fuel and brake lines, brake cables, floor pan and fenders.

In winter, the underbody must be cleaned periodically.

For additional protection against rust and corrosion, which may be required in some areas, it is recommended you consult an INFINITI retailer.

MEMO

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MAINTENANCE PRECAUTIONS

When performing any inspection or maintenance work on your vehicle, always take care to prevent serious accidental injury to yourself or damage to the vehicle. The following are general precautions which should be closely observed.

⚠ WARNING

- **Park the vehicle on a level surface, apply the parking brake securely and block the wheels to prevent the vehicle from moving. Move the shift lever to P (Park).**
- **Be sure the ignition switch is in the OFF or LOCK position when performing any parts replacement or repairs.**
- **Never connect or disconnect the battery or any transistorized component while the ignition switch is in the ON position.**
- **Never leave the engine or automatic transmission related component harnesses disconnected while the ignition switch is in the ON position.**
- **If you must work with the engine running, keep your hands, clothing, hair and tools away from moving fans, belts and any other moving parts.**
- **It is advisable to secure or remove any loose clothing and remove any jewelry, such as rings, watches, etc. before working on your vehicle.**
- **Always wear eye protection whenever you work on your vehicle.**
- **If you must run the engine in an enclosed space such as a garage, be sure there is proper ventilation for exhaust gases to escape.**
- **Never get under the vehicle while it is supported only by a jack. If it is necessary to work under the vehicle, support it with safety stands.**
- **Keep smoking materials, flame and sparks away from fuel tank and the battery.**
- **Your vehicle is equipped with an automatic engine cooling fan. It may come on at any time without warning, even if the ignition key is in the OFF position and the engine is not running. To avoid injury, always disconnect the negative battery cable before working near the fan.**
- **On gasoline engine models, the fuel filter or fuel lines should be serviced because the fuel lines are under high pressure even when the engine is off. It is recommended you visit an INFINITI retailer for this service.**

⚠ CAUTION

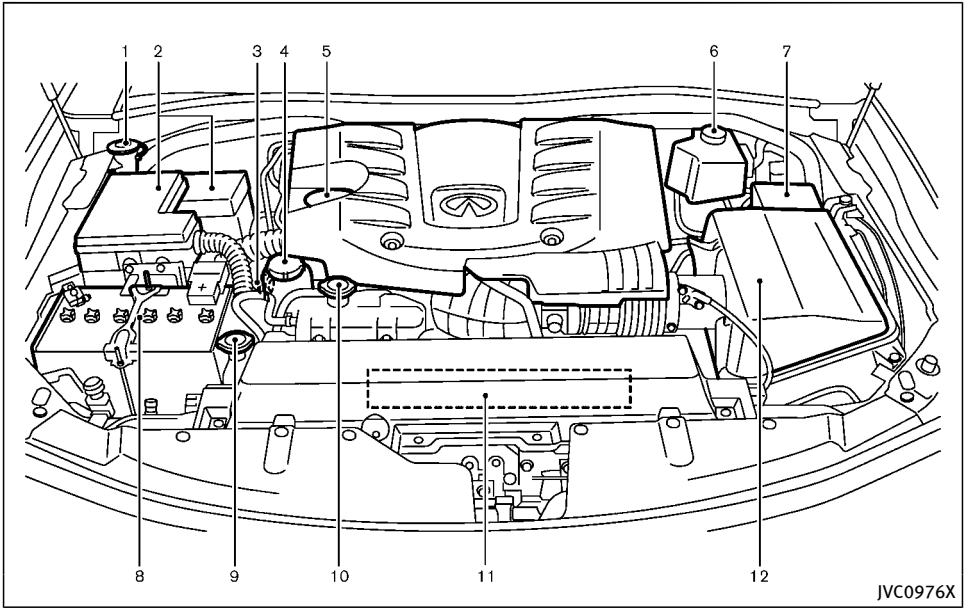
- **Do not work under the hood while the engine is hot. Turn the engine off and wait until it cools down.**
- **Avoid direct contact with used engine oil and coolant. Improperly disposed engine oil, coolant, and/or other vehicle fluids can damage the environment. Always conform to local regulations for disposal of vehicle fluid.**

This “8. Do-it-yourself” section gives instructions regarding only those items which are relatively easy for an owner to perform.

A genuine INFINITI Service Manual is also available. (See “Owner’s Manual/Service Manual order information” (P.10-35).)

You should be aware that incomplete or improper servicing may result in operating difficulties or excessive emissions, and could affect your warranty coverage. **If in**

doubt about any servicing, it is recommended you have it done by an INFINITI retailer.



VK56VD ENGINE MODEL

1. Window washer fluid reservoir
2. Fuse/fusible link holder
3. Engine oil dipstick
4. Power steering fluid reservoir
5. Engine oil filler cap
6. Brake fluid reservoir
7. Fuse/fusible link holder
8. Battery
9. Radiator filler cap
10. Engine coolant reservoir
11. Drive belts
12. Air cleaner

ENGINE COOLING SYSTEM

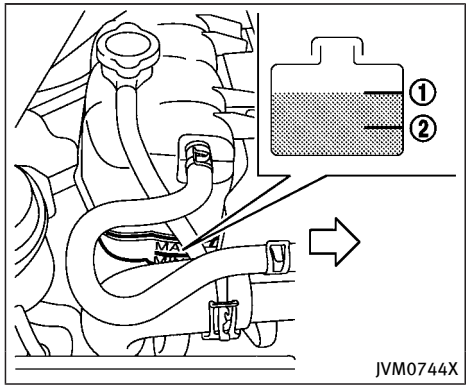
The engine cooling system is filled at the factory with a pre-diluted mixture of 50% Genuine NISSAN Long Life Antifreeze/Coolant (blue) and 50% water to provide year-round anti-freeze and coolant protection. The antifreeze solution contains rust and corrosion inhibitors. Additional engine cooling system additives are not necessary.

WARNING

- **Never remove the radiator or coolant reservoir cap when the engine is hot. Wait until the engine and radiator cool down. Serious burns could be caused by high pressure fluid escaping from the radiator. See precautions in "If your vehicle overheats" (P.6-14).**
- **The radiator is equipped with a pressure type radiator cap. To prevent engine damage, use only a genuine NISSAN radiator cap.**

CAUTION

- **Never use any cooling system additives such as radiator sealer. Additives may clog the cooling system and cause damage to the engine, transmission and/or cooling system.**
- **When adding or replacing coolant, be sure to use only Genuine NISSAN Long Life Antifreeze/Coolant (blue) or equivalent. Genuine NISSAN Long Life Antifreeze/Coolant (blue) is pre-diluted to provide antifreeze protection to –34°F (–37°C). If additional freeze protection is needed due to weather where you operate your vehicle, add Genuine NISSAN Long Life Antifreeze/Coolant (blue) concentrate following the directions on the container. If an equivalent coolant other than Genuine NISSAN Long Life Antifreeze/Coolant (blue) is used, follow the coolant manufacturer's instructions to maintain minimum antifreeze protection to –34°F (–37°C). The use of other types of coolant solutions other than Genuine NISSAN Long Life Antifreeze/Coolant (blue) or equivalent may damage the engine cooling system.**
- **The life expectancy of the factory-fill coolant is 105,000 miles (168,000 km) or 7 years. Mixing any other type of coolant other than Genuine NISSAN Long Life Antifreeze/Coolant (blue), including Genuine NISSAN Long Life Antifreeze/Coolant (green), or the use of non-distilled water will reduce the life expectancy of the factory-fill coolant. Refer to the "9. Maintenance and schedules" section for more details.**



CHECKING ENGINE COOLANT LEVEL

Check the coolant level **in the reservoir when the engine is cold.** If the coolant level is below MIN ②, open the reservoir tank cap and add coolant up to the MAX ① level. If the reservoir tank is empty, check the coolant level in the radiator **when the engine is cold.** If there is insufficient coolant in the radiator, fill the radiator with coolant up to the filler opening and also add it to the reservoir tank up to the MAX level ①.

Tighten the cap securely after adding engine coolant.

If the cooling system requires coolant frequently, have it checked. It is recommended you visit an INFINITI retailer for this service.

CHANGING ENGINE COOLANT

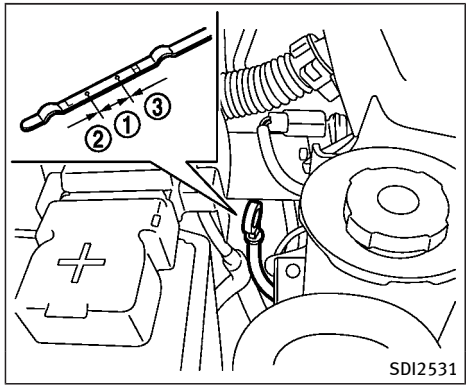
It is recommended that major cooling system repairs be performed by an INFINITI retailer. The service procedures can be found in the appropriate INFINITI Service Manual.

Improper servicing can result in reduced heater performance and engine overheating.

⚠ WARNING

- **To avoid the danger of being scalded, never change the coolant when the engine is hot.**
- **Never remove the radiator cap or coolant reservoir cap when the engine is hot. Serious burns could be caused by high pressure fluid escaping from the radiator.**
- **Avoid direct skin contact with used coolant. If skin contact is made, wash thoroughly with soap or hand cleaner as soon as possible.**
- **Keep coolant out of reach of children and pets.**

Engine coolant must be disposed of properly. Check your local regulations.



CHECKING ENGINE OIL LEVEL

1. Park the vehicle on a level surface and apply the parking brake.
2. Run the engine until it reaches operating temperature.
3. Turn off the engine. **Wait more than 15 minutes for the oil to drain back into the oil pan.**
4. Remove the dipstick and wipe it clean. Reinsert it all the way.
5. Remove the dipstick again and check the oil level. It should be within the range ①. If the oil level is below ②, remove the oil filler cap and pour recommended oil through the opening. **Do not overfill ③.**
6. Recheck oil level with the dipstick.

It is normal to add some oil between oil maintenance intervals or during the break-in period, depending on the severity of operating conditions.

⚠ CAUTION

Oil level should be checked regularly. Operating the engine with an insufficient amount of oil can damage the engine, and such damage is not covered by warranty.

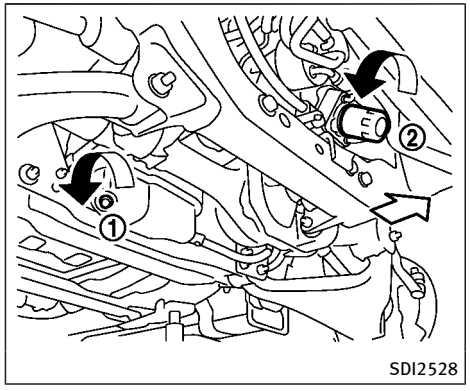
CHANGING ENGINE OIL AND FILTER

Vehicle set-up

1. Park the vehicle on a level surface and apply the parking brake.
2. Run the engine until it reaches operating temperature.
3. Turn the engine off and wait more than 15 minutes.
4. Raise and support the vehicle using a suitable floor jack and safety jack stands.
 - Place the safety jack stands under the vehicle jack-up points.
 - A suitable adapter should be attached to the jack stand saddle.
5. Remove the engine undercover.
 - Remove the bolts that hold the undercover in place.

⚠ CAUTION

Make sure the correct lifting and support points are used to avoid vehicle damage.



Engine oil and filter

1. Place a large drain pan under the drain plug.
2. Remove the oil filler cap.
3. Remove the drain plug ① with a wrench and completely drain the oil.

CAUTION

Be careful not to burn yourself, as the engine oil is hot.

- **Waste oil must be disposed of properly.**
- **Check your local regulations.**

4. (Perform steps 4 to 7 only when the engine oil filter change is needed.)
 Loosen the oil filter ② with an oil filter wrench. Remove the oil filter by turning it by hand.
5. Wipe the engine oil filter mounting surface with a clean rag.

CAUTION

Be sure to remove any old rubber gasket remaining on the mounting surface of the engine. Failure to do so could lead to engine damage.

6. Coat the gasket on the new filter with clean engine oil.
7. Screw in the oil filter clockwise until a slight resistance is felt, then tighten additionally more than 2/3 turn.
 Oil filter tightening torque:
 11 to 15 ft-lb
 (15 to 21 N·m)
8. Clean and re-install the drain plug with a new washer. Securely tighten the drain plug with a wrench.
 Drain plug tightening torque:
 22 to 29 ft-lb
 (29 to 39 N·m)
 Do not use excessive force.
9. Refill engine with recommended oil and install the oil filler cap securely.

CAUTION

The dipstick must be inserted in place to prevent oil spillage from the dipstick hole while filling the engine with oil.

 See “Capacities and recommended fluids/lubricants” (P.10-2) for drain and refill capacity. The drain and refill capacity depends on the oil temperature and drain time. Use these specifications for reference only. Always use the dipstick to determine the proper amount of oil in the engine.
10. Start the engine and check for leakage around the drain plug and the oil filter. Correct as required.
11. Turn the engine off and wait more than 15 minutes. Check the oil level with the dipstick. Add engine oil if necessary.

After the operation

1. Install the engine undercover into position as the following steps.
 a. Pull the center of the small plastic clip out.
 b. Hold the engine undercover into position.
 c. Insert the clip through the undercover into the hole in the frame, then push the center of the clip in to lock the clip in place.
 d. Install the other bolts that hold the undercover in place. Be careful not to strip the bolts or over-tighten them.
2. Lower the vehicle carefully to the ground.
3. Dispose of waste oil and filter properly.

WARNING

- **Prolonged and repeated contact with used engine oil may cause skin cancer.**
- **Try to avoid direct skin contact with used oil. If skin contact is made, wash thoroughly with soap or hand cleaner as soon as possible.**
- **Keep used engine oil out of reach of children.**

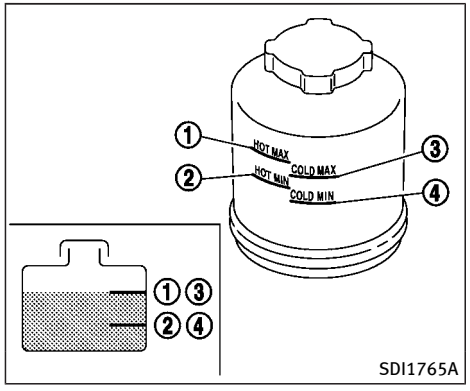
AUTOMATIC TRANSMISSION FLUID (ATF)

When checking or replacement is required, we recommend an INFINITI retailer for servicing.

CAUTION

- **It is recommended that you use only Genuine NISSAN Matic S ATF. Do not mix with other fluids.**
- **Using automatic transmission fluid other than Genuine NISSAN Matic S ATF may cause deterioration in driveability and automatic transmission durability, and may damage the automatic transmission. Damage caused by the use of fluid other than as recommended is not covered by the INFINITI new vehicle limited warranty.**

POWER STEERING FLUID



Check the fluid level in the reservoir.

The fluid level should be checked using the HOT range (①: HOT MAX., ②: HOT MIN.) at fluid temperatures of 122 to 176°F (50 to 80°C) or using the COLD range (③: COLD MAX., ④: COLD MIN.) at fluid temperatures of 32 to 86°F (0 to 30°C).

If the fluid is below the MIN line, add Genuine NISSAN PSF or equivalent. Remove the cap and fill through the opening.

CAUTION

- **Do not overfill.**
- **Use Genuine NISSAN PSF or equivalent.**

BRAKE FLUID

For further brake fluid specification information, see “Capacities and recommended fluids/lubricants” (P.10-2).

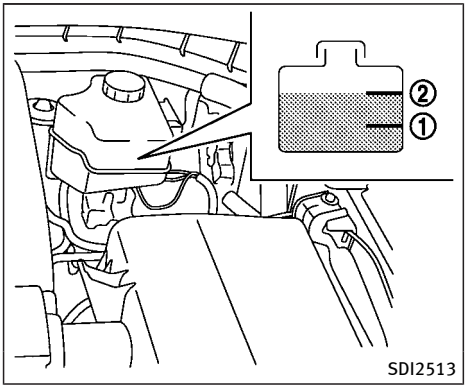
WARNING

- **Use only new fluid from a sealed container. Old, inferior or contaminated fluid may damage the brake system. The use of improper fluids can damage the brake system and affect the vehicle’s stopping ability.**
- **Be sure to clean the filler cap before removing.**
- **Brake fluid is poisonous and should be stored carefully in marked containers out of the reach of children.**

CAUTION

- **Do not add brake fluid with the ignition switch in the “ON” position or the engine running. Doing so could make the brake fluid overfill when the ignition switch is turned off.**
- **Do not spill the fluid on painted surfaces. This will damage the paint. If fluid is**

spilled, wash the surface with water.



BRAKE FLUID

Check the fluid level in the reservoir. If the fluid is below the MIN line ① or the brake warning light comes on, add Genuine NISSAN Super Heavy Duty Brake Fluid or equivalent **DOT 3** fluid up to the MAX line ②.

To add brake fluid:

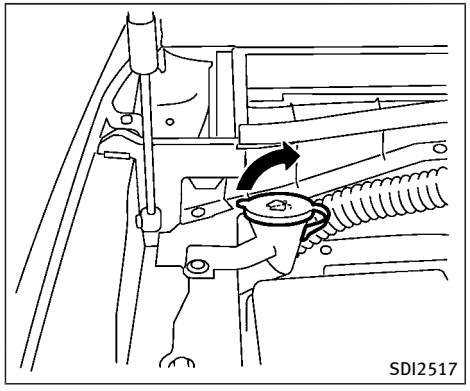
1. Be sure the ignition switch is in the OFF or LOCK position.
2. Depress and release the foot brake pedal more than 40 times.
3. Open the reservoir filler cap and add brake fluid up to the MAX line ②. (See "Capacities and recommended fluids/lubricants" (P.10-2) for the recommended types of brake fluid.)

NOTE:

When the ignition switch is placed in the "ON" position after adding brake fluid up to the MAX line ② in the reservoir, the brake fluid decreases below the MAX line ②. This is normal.

If fluid must be added frequently, the system should be checked. It is recommended you visit an INFINITI retailer for this service.

WINDOW WASHER FLUID



WARNING

Antifreeze is poisonous and should be stored carefully in marked containers out of the reach of children.

Fill the window washer fluid reservoir periodically. Add window washer fluid when the low window washer fluid warning illuminates.

To fill the window washer fluid reservoir, lift the cap off the reservoir tank and pour the window washer fluid into the tank opening.

Add a washer solvent to the washer for better cleaning. In the winter season, add a windshield washer antifreeze. Follow the manufacturer's instructions for the mixture ratio.

Refill the reservoir more frequently when driving conditions require an increased amount of window washer fluid.

Recommended fluid is Genuine NISSAN Windshield Washer Concentrate Cleaner & Antifreeze or equivalent.

CAUTION

- **Do not substitute engine anti-freeze coolant for window washer solution. This may result in damage to the paint.**
- **Do not fill the window washer reservoir tank with washer fluid concentrates at full strength. Some methyl alcohol based washer fluid concentrates may permanently stain the grille if spilled while filling the window washer reservoir tank.**
- **Pre-mix washer fluid concentrates with water to the manufacturer's recommended levels before pouring the fluid into the window washer reservoir tank.**

Do not use the window washer reservoir tank to mix the washer fluid concentrate and water.

- Keep the battery surface clean and dry. Clean the battery with a solution of baking soda and water.
- Make certain the terminal connections are clean and securely tightened.
- If the vehicle is not to be used for 30 days or longer, disconnect the negative (–) battery terminal cable to prevent discharging it.

NOTE:

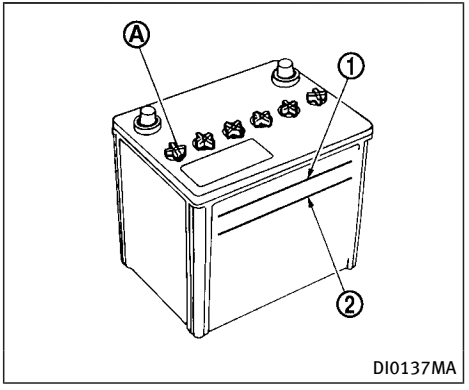
Care should be taken to avoid situations that can lead to potential battery discharge and potential no-start conditions such as:

1. **Installation or extended use of electronic accessories that consume battery power when the engine is not running (Phone chargers, GPS, DVD players, etc.)**
2. **Vehicle is not driven regularly and/or only driven short distances.**

In these cases, the battery may need to be charged to maintain battery health.

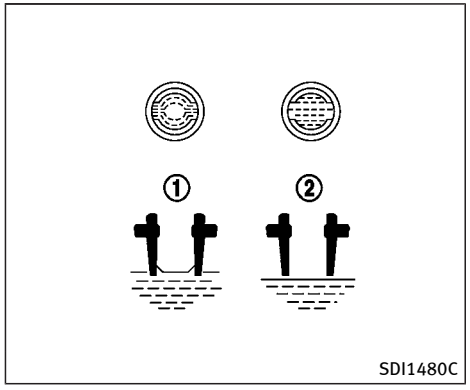
WARNING

- **Do not expose the battery to flames or electrical sparks. Hydrogen gas generated by the battery is explosive. Do not allow battery fluid to contact your skin, eyes, fabrics, or painted surfaces. After touching a battery or battery cap, do not touch or rub your eyes. Thoroughly wash your hands. If the acid contacts your eyes, skin or clothing, immediately flush with water for at least 15 minutes and seek medical attention.**
- **Do not operate the vehicle if the fluid in the battery is low. Low battery fluid can cause a higher load on the battery which can generate heat, reduce battery life, and in some cases lead to an explosion.**
- **When working on or near a battery, always wear suitable eye protection and remove all jewelry.**
- **Battery posts, terminals and related accessories contain lead and lead compounds. Wash hands after handling.**
- **Keep the battery out of the reach of children.**



Check the fluid level in each cell (Remove the battery cover if it is necessary). It should be between the UPPER LEVEL ① and LOWER LEVEL ② lines.

If it is necessary to add fluid, add only distilled water to bring the level to the indicator in each filler opening. **Do not overfill.**



1. Remove the cell plugs Ⓐ.
2. Add distilled water up to the UPPER LEVEL ① line.

 If the side of the battery is not clear, check the distilled water level by looking directly above the cell; the condition ① indicates OK and the conditions ② needs more to be added.
3. Tighten cell plugs Ⓐ.

Vehicles operated in high temperatures or under severe conditions require frequent checks of the battery fluid level.

JUMP STARTING

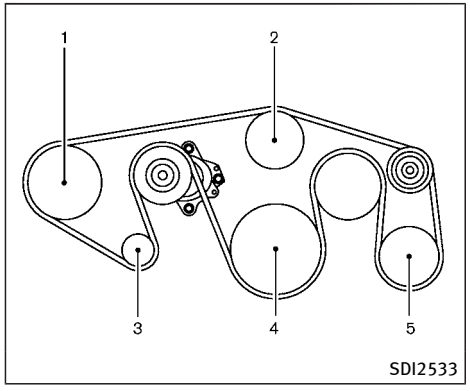
If jump starting is necessary, see “Jump starting” (P.6-11). If the engine does not start by jump starting, the battery may have to be replaced. It is recommended you visit an INFINITI retailer for this service.

CAUTION

- **Do not ground accessories directly to the battery terminal. Doing so will bypass the variable voltage control system and the vehicle battery may not charge completely.**
- **Use electrical accessories with the engine running to avoid discharging the vehicle battery.**

The variable voltage control system measures the amount of electrical discharge from the battery and controls voltage generated by the generator.

DRIVE BELTS



1. Power steering fluid pump
2. Water pump
3. Alternator
4. Crankshaft pulley
5. Air conditioner compressor

WARNING

Be sure the ignition switch is in the OFF or LOCK position before servicing drive belts. The engine could rotate unexpectedly.

1. Visually inspect each belt for signs of unusual wear, cuts, fraying or looseness. If the belt is in poor condition or loose, have it replaced or adjusted. It is recommended you visit an INFINITI retailer for this service.
2. Have the belts checked regularly for condition and tension in accordance with the maintenance schedule shown in the “9. Maintenance and schedules” section.

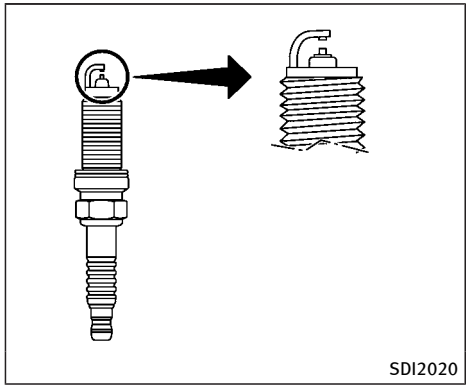
SPARK PLUGS

WARNING

Be sure the engine and the ignition switch are off and that the parking brake is engaged securely.

CAUTION

Be sure to use the correct socket to remove the spark plugs. An incorrect socket can damage the spark plugs.


SDI2020

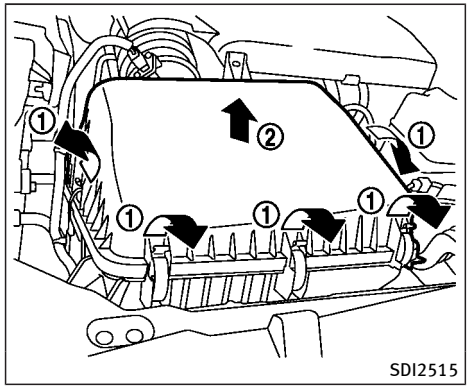
REPLACING SPARK PLUGS

If replacement is required, it is recommended you visit an INFINITI retailer for this service.

Iridium-tipped spark plugs

It is not necessary to replace the iridium-tipped spark plugs as frequently as the conventional type spark plugs since they will last much longer. Follow the maintenance schedule shown in the "9. Maintenance and schedules" section, but do not reuse them by cleaning or regapping.

Always replace spark plugs with recommended or equivalent ones.


SDI2515

To remove the filter, release the lock pins ① and pull the unit upward ②.

The filter element should not be cleaned and reused. Replace it according to the maintenance intervals. See "9. Maintenance and schedules" section for maintenance intervals. When replacing the filter, wipe the inside of the air cleaner housing and the cover with a damp cloth.

WARNING

- **Operating the engine with the air cleaner removed can cause you or others to be burned. The air cleaner not only cleans the air, it stops flame if the engine backfires. If it isn't there, and the engine backfires, you could be burned. Do not drive with the air cleaner removed, and be careful when working on the engine with the air cleaner removed.**
- **Never pour fuel into the throttle body or attempt to start the engine with the air cleaner removed. Doing so could result in serious injury.**

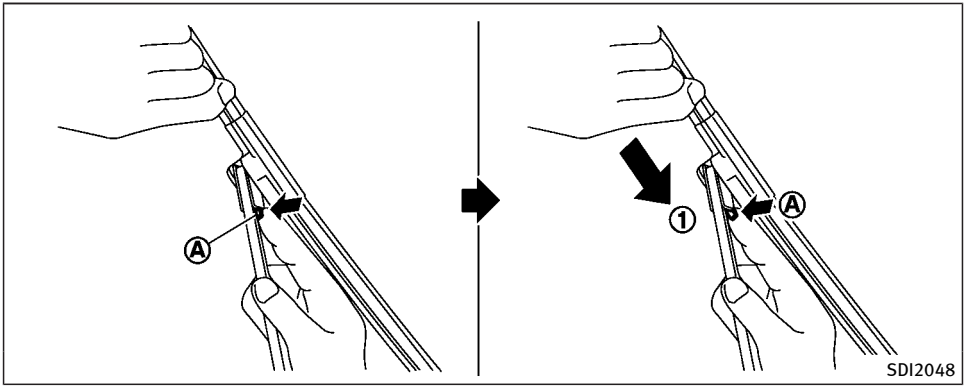
CLEANING

If your windshield is not clear after using the windshield washer or if a wiper blade chatters when running, wax or other material may be on the blade or windshield.

Clean the outside of the windshield with a washer solution or a mild detergent. Your windshield is clean if beads do not form when rinsing with clear water.

Clean each blade by wiping it with a cloth soaked in a washer solution or a mild detergent. Then rinse the blade with clear water. If your windshield is still not clear after cleaning the blades and using the wiper, replace the blades.

Worn windshield wiper blades can damage the windshield and impair driver vision.



REPLACING

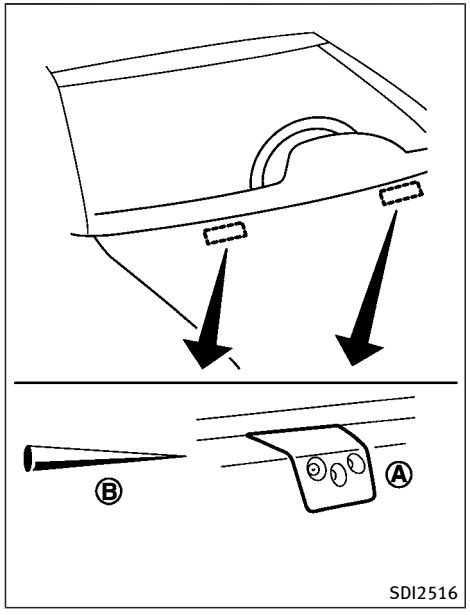
Replace the wiper blades if they are worn.

1. Pull the wiper arm.
2. Push the release tab Ⓐ, and then move the wiper blade down the wiper arm ① while pushing the release tab to remove.
3. Insert the new wiper blade onto the wiper arm until a click sounds.
4. Rotate the wiper blade so the dimple is in the groove.

CAUTION

- **After wiper blade replacement, return the wiper arm to its original position;**

 otherwise it may be damaged when the hood is opened.
- **Make sure the wiper blades contact the glass; otherwise the arm may be damaged from wind pressure.**



Be careful not to clog the washer nozzle Ⓐ. This may cause improper windshield washer operation. If the nozzle is clogged, remove any objects with a needle or small pin Ⓑ. Be careful not to damage the nozzle.

REAR WINDOW WIPER BLADES

It is recommended you visit an INFINITI retailer if checking or replacement is required.

BRAKES

If the brakes do not operate properly, it is recommended you have the brakes checked by an INFINITI retailer.

SELF-ADJUSTING BRAKES

Your vehicle is equipped with self-adjusting brakes.

The disc-type brakes self-adjust every time the brake pedal is applied.

WARNING

Have your brake system checked if the brake pedal height does not return to normal. It is recommended you visit an INFINITI retailer for this service.

BRAKE PAD WEAR WARNING

The disc brake pads have audible wear warnings. When a brake pad requires replacement, it will make a high pitched scraping sound when the vehicle is in motion. This scraping sound will first occur only when the brake pedal is depressed. After more wear of the brake pad, the sound will always be heard even if the brake pedal is not depressed. Have the brakes checked as soon as possible if the wear warning sound is heard.

Under some driving or climate conditions, occasional brake squeak, squeal or other noise may be heard. Occasional brake noise during light to moderate stops is normal and does not affect the function or performance of the brake system.

Proper brake inspection intervals should be followed. For additional information, see the maintenance schedules shown in the “9. Maintenance and schedules” section.

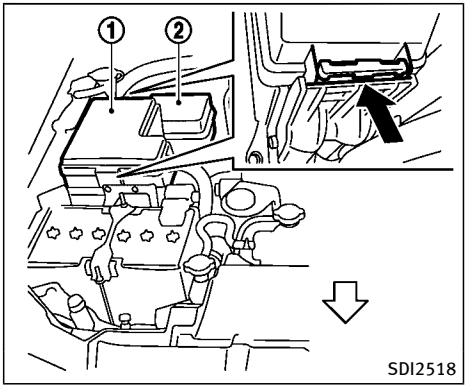
BRAKE BOOSTER

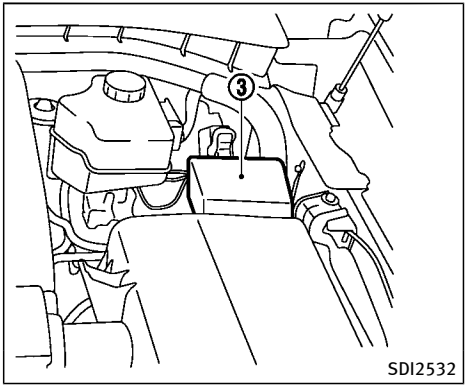
Check the brake booster function as follows:

1. With the engine off, depress and release the foot brake pedal more than 20 times. When the foot brake pedal movement (distance of travel) remains the same from one pedal application to the next, continue on to the next step.
2. While depressing the foot brake pedal, start the engine.
3. With the foot brake pedal depressed, stop the engine. Keep the pedal depressed for about 30 seconds.
4. Run the engine for 1 minute without depressing the foot brake pedal, then turn it off. Depress the foot brake pedal several times. The pedal travel distance will decrease gradually with each depression as the hydraulic pressure decreases.

If the brakes do not operate properly, have the brakes checked. It is recommended that you visit an INFINITI retailer for repair.

FUSES





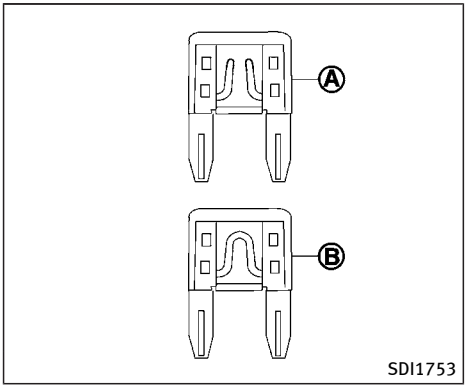
ENGINE COMPARTMENT

WARNING

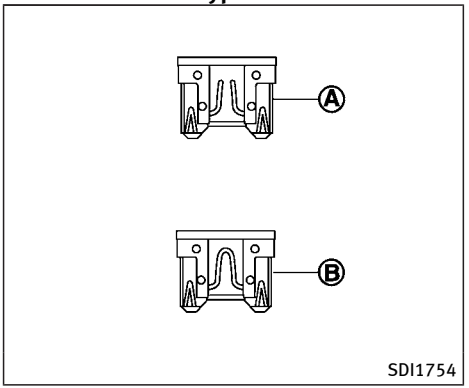
Never use a fuse of a higher or lower amperage rating than that specified on the fuse box cover. This could damage the electrical system or electronic control units or cause a fire.

If any electrical equipment does not operate, check for an open fuse.

1. Be sure the ignition switch is pushed to the OFF or LOCK position and the headlight switch is turned to OFF.
2. Open the engine hood and remove the cover on the battery.
3. Remove the fuse/fusible link holder cover ①, ② or ③.
4. Remove the fuse with the fuse puller.



Type A

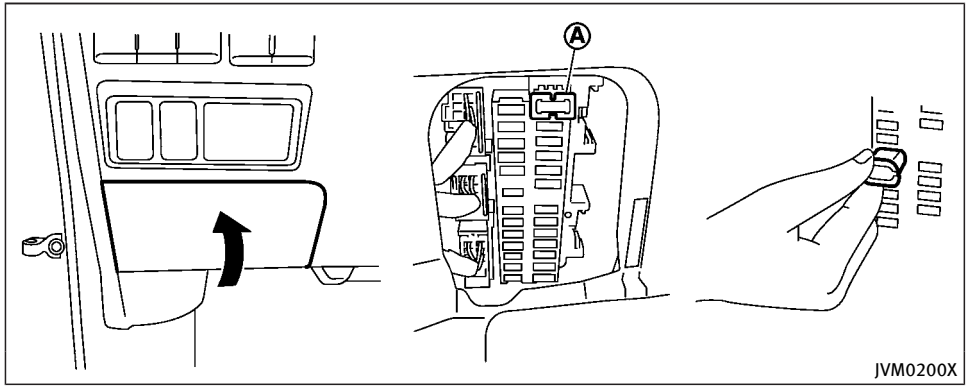


Type B

5. If the fuse is open Ⓐ, replace it with a new fuse Ⓑ. Spare fuses are stored in the passenger compartment fuse box.
6. If a new fuse also opens, have the electrical system checked and repaired. It is recommended you visit an INFINITI retailer for this service.

Fusible links

If any electrical equipment does not operate and fuses are in good condition, check the fusible links. If any of these fusible links are melted, replace only with genuine INFINITI parts.



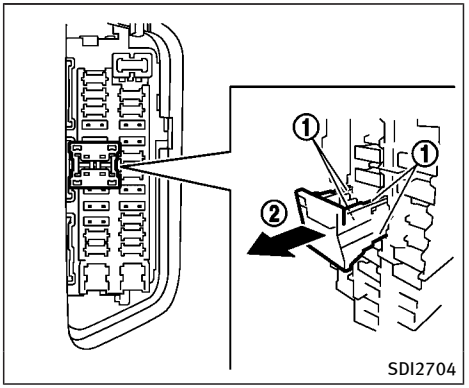
PASSENGER COMPARTMENT

WARNING

Never use a fuse of a higher or lower amperage rating than that specified on the fuse box cover. This could damage the electrical system or electronic control units or cause a fire.

If any electrical equipment does not operate, check for an open fuse.

1. Be sure the ignition switch is pushed to the OFF or LOCK position and the headlight switch is turned to OFF.
2. Open the fuse box lid.
3. Remove the fuse with the fuse puller Ⓐ.
4. If the fuse is open, replace it with a new fuse.
5. If a new fuse also opens, have the electrical system checked and repaired. It is recommended you visit an INFINITI retailer for this service. Spare fuses are stored in the fuse box.



Extended storage fuse switch (if so equipped)

To reduce battery drain, the extended storage fuse switch comes from the factory switched off. Prior to delivery of your vehicle, the switch is pushed in (switched on) and should always remain on.

If the extended storage fuse switch is not pushed in (switched on), the “SHIPPING MODE ON, PUSH STORAGE FUSE” warning may appear on the vehicle information display (if so equipped). See “Vehicle information display” (P.2-22).

If any electrical equipment does not

operate, remove the extended storage fuse switch and check for an open fuse.

NOTE:

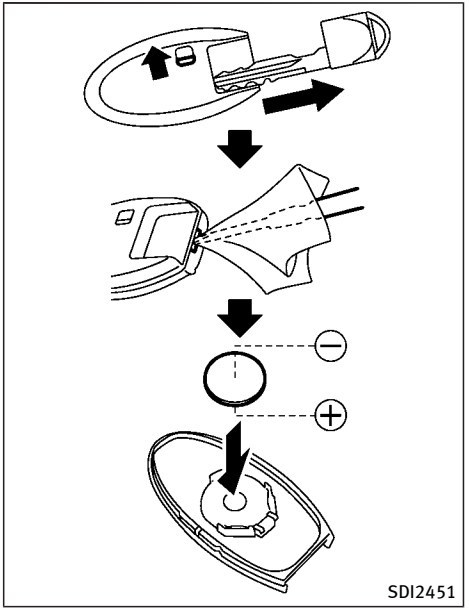
If the extended storage fuse switch malfunctions or if the fuse is open, it is not necessary to replace the switch. In this case, remove the extended storage fuse switch and replace it with a new fuse of the same rating.

How to remove the extended storage fuse switch:

1. To remove the extended storage fuse switch, be sure the ignition switch is in the OFF or LOCK position.
2. Be sure the headlight switch is in the OFF position.
3. Remove the fuse box cover.
4. Pinch the locking tabs ① found on each side of the storage fuse switch.
5. Pull the storage fuse switch straight out from the fuse box ②.

CAUTION

Be careful not to allow children to swallow the battery and removed parts.



Replace the battery as follows:

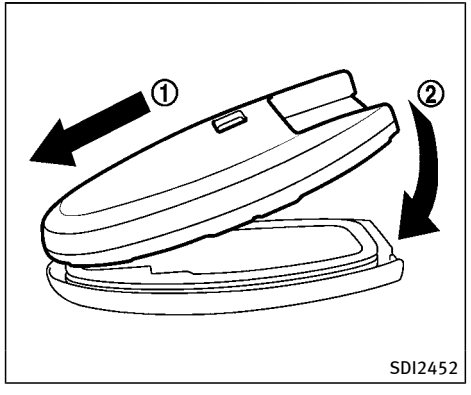
1. Release the lock knob at the back of the Intelligent Key and remove the mechanical key.
2. Insert a small screwdriver into the slit of the corner and twist it to separate the upper part from the lower part. Use a

cloth to protect the casing.

3. Replace the battery with a new one.

 Recommended battery: CR2025 or equivalent.

 - Do not touch the internal circuit and electric terminals as it could cause a malfunction.
 - Hold the battery by the edges. Holding the battery across the contact points will seriously deplete the storage capacity.
 - Make sure that the + side faces the bottom of the case.



SDI2452

4. Align the tips of the upper and lower parts ①, and then push them together until it is securely closed ②.
5. Push the buttons two or three times to check its operation.

It is recommended you visit an INFINITI retailer if you need any assistance for replacement.

FCC Notice:

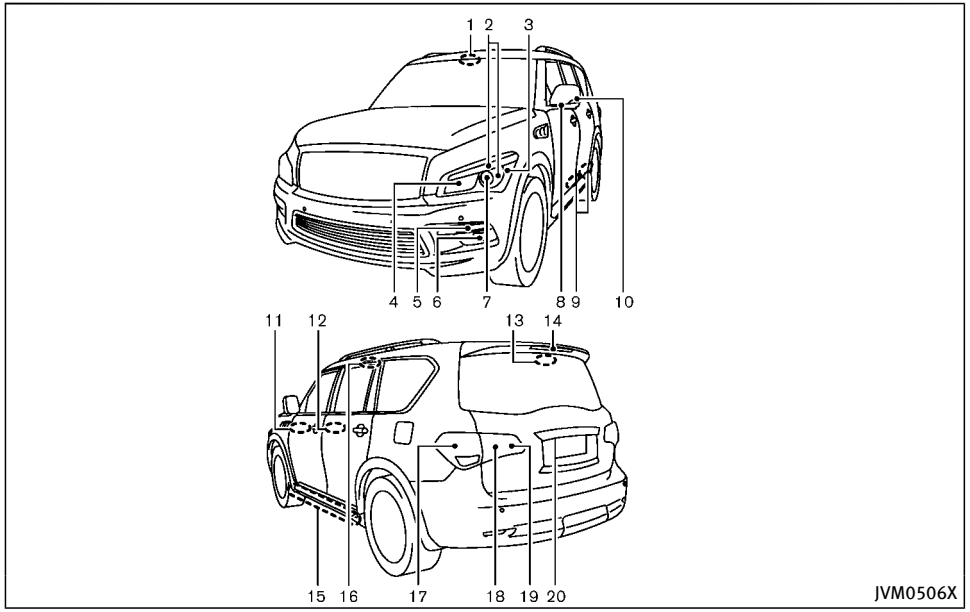
For USA:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For Canada:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.



1. Map light
2. Front parking light/daytime running light
3. Front side marker light
4. Headlight (high-beam)
5. Front turn signal light
6. Fog light
7. Headlight (low-beam)
8. Puddle light
9. Step light
10. Side turn signal light
11. Front armrest light
12. Rear armrest light
13. Cargo light
14. High-mounted stop light
15. Side step light (if so equipped)
16. Rear personal light
17. Rear combination light (tail/stop/turn signal/side marker light)
18. Tail light
19. Back-up light
20. License plate light

HEADLIGHTS

If replacement is required, it is recommended you visit an INFINITI retailer for this service.

EXTERIOR AND INTERIOR LIGHTS

Item	Wattage (W)	Bulb No.
Headlight*		
High beams	LED	—
Low beams	LED	—
Front turn signal light*	LED	—
Fog light*	LED	—
Front parking light*	LED	—
Front side marker light*	LED	—
Rear combination light*		
tail	5	W5W
back-up	16	W16W
stop/tail	LED	—
side marker	LED	—
turn signal	21	WY21W
License plate light	5	W5W
Puddle light*	LED	—
Front and rear armrest light*	LED	—
Map light	8	—
Rear personal light	8	—
Cargo light	8	—
Vanity mirror light	2	—
Step light*	8	—
Side step light* (if so equipped)	LED	—
High-mounted stop light*	LED	—

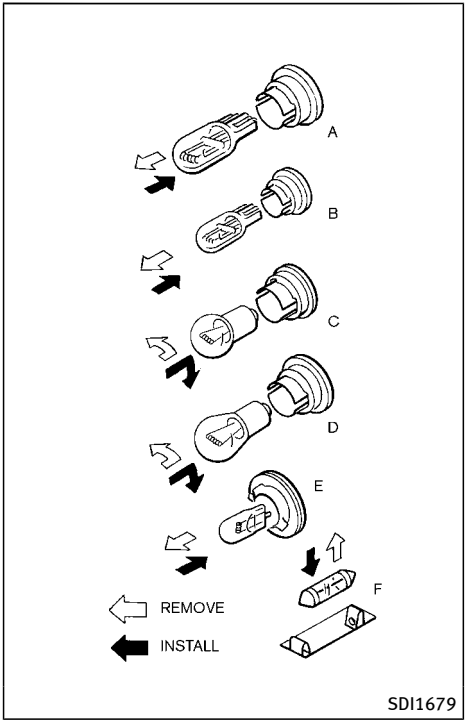
*: It is recommended you visit an INFINITI retailer for replacement.

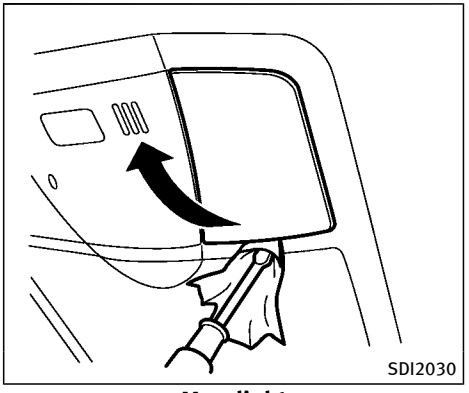
NOTE:

Always check with the Parts Department at an INFINITI retailer for the latest information about parts.

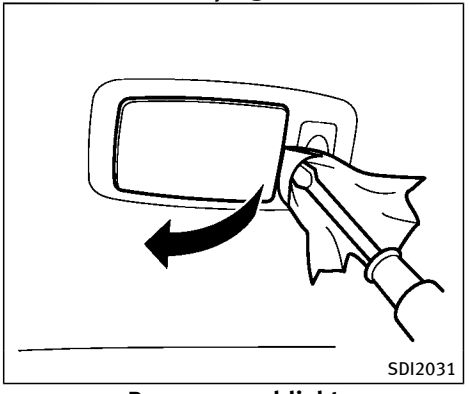
Replacement procedures

All other lights are either type A, B, C, D, E or F. When replacing a bulb, first remove the lens and/or cover.

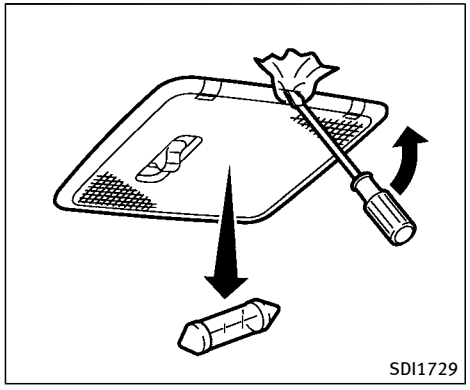




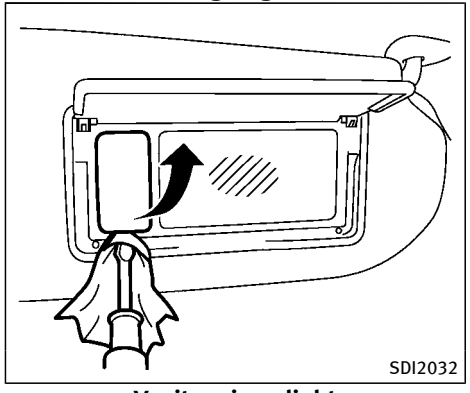
Map light



Rear personal light



Cargo light



Vanity mirror light

If you have a flat tire, see “Flat tire” (P.6-3).

TIRE PRESSURE

Tire Pressure Monitoring System (TPMS)

This vehicle is equipped with the Tire Pressure Monitoring System (TPMS). It monitors tire pressure of all tires except the spare. When the low tire pressure warning light is lit and the CHECK TIRE PRESSURE warning appears in the vehicle information display, one or more of your tires is significantly under-inflated.

The TPMS will activate only when the vehicle is driven at speeds above 16 MPH (25 km/h). Also, this system may not detect a sudden drop in tire pressure (for example, a flat tire while driving).

For more details, see “Low tire pressure warning light” (P.2-16), “Tire Pressure Monitoring System (TPMS)” (P.5-5) and “Tire Pressure Monitoring System (TPMS) ” (P.6-3).

Tire inflation pressure

Check the pressure of the tires (including the spare) often and always prior to long distance trips. The recommended tire pressure specifications are shown on the Tire and Loading Information label under the “Cold Tire Pressure” heading. The Tire and Loading Information label is affixed to the driver side center pillar. Tire pressures should be checked regularly because:

- Most tires naturally lose air over time.
- Tires can lose air suddenly when driven over potholes or other objects or if the vehicle strikes a curb while parking.

The tire pressures should be checked when the tires are cold. The tires are considered COLD after the vehicle has been parked for 3 or more hours, or driven less than 1 mile (1.6 km) at moderate speeds.

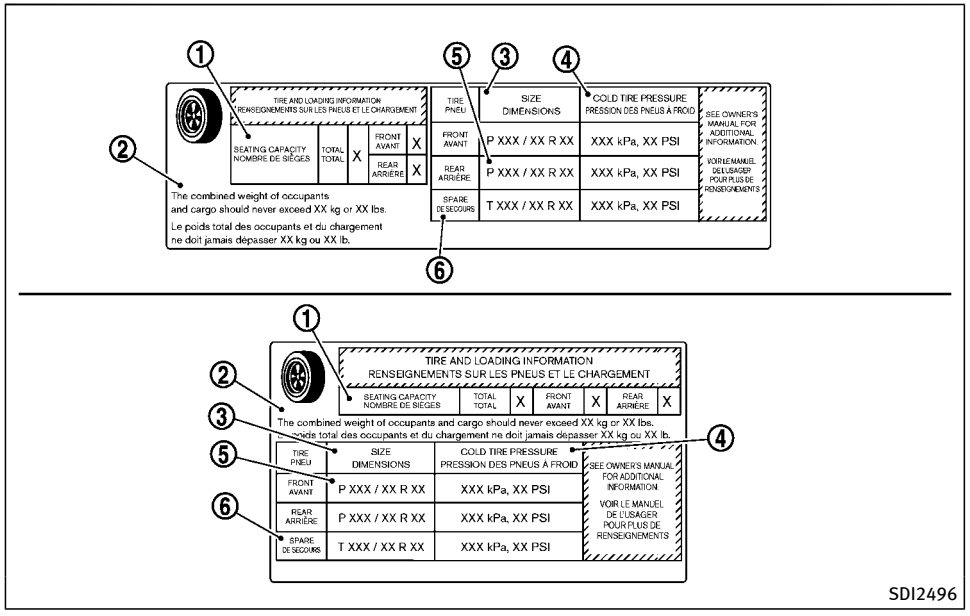
TPMS with Tire Inflation Indicator provides visual and audible signals outside the vehicle for inflating the tires to the recommended COLD tire pressure. (See “TPMS with Tire Infla-

tion Indicator" (P.5-8) about the TPMS with Tire Inflation Indicator.)

Incorrect tire pressure, including under inflation, may adversely affect tire life and vehicle handling.

WARNING

- **Improperly inflated tires can fail suddenly and cause an accident.**
- **The Gross Vehicle Weight rating (GVWR) is located on the F.M.V.S.S./C.M.V.S.S. certification label. The vehicle weight capacity is indicated on the Tire and Loading Information label. Do not load your vehicle beyond this capacity. Overloading your vehicle may result in reduced tire life, unsafe operating conditions due to premature tire failure, or unfavorable handling characteristics and could also lead to a serious accident. Loading beyond the specified capacity may also result in failure of other vehicle components.**
- **Before taking a long trip, or whenever you heavily load your vehicle, use a tire pressure gauge to ensure that the tire pressures are at the specified level.**
- **For additional information regarding tires, refer to "Important Tire Safety Information" (US) or "Tire Safety Information" (Canada) in the Warranty Information Booklet.**



Tire and Loading Information label

① Seating capacity: The maximum number of occupants that can be seated in the vehicle.

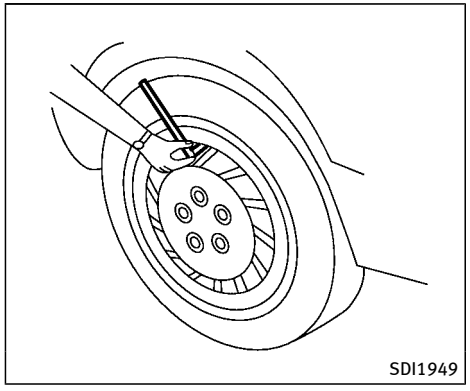
② Vehicle load limit: See “Vehicle loading information” (P.10-14).

③ Original size: The size of the tires originally installed on the vehicle at the factory.

④ Cold tire pressure: Inflate the tires to this pressure when the tires are cold. Tires are considered COLD after the vehicle has been parked for 3 or more hours, or driven less than 1 mile (1.6 km) at moderate speeds. The recommended cold tire inflation is set by the manufacturer to provide the best balance of tire wear, vehicle handling, driveability, tire noise, etc., up to the vehicle’s GVWR.

⑤ Tire size — see “Tire labeling” (P.8-31).

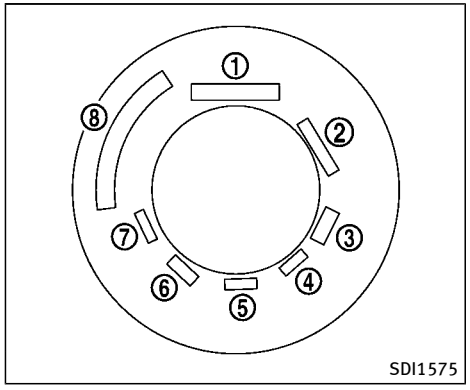
⑥ Spare tire size or compact spare tire size (if so equipped)



Checking the tire pressure

1. Remove the valve stem cap from the tire.
2. Press the pressure gauge squarely onto the valve stem. Do not press too hard or force the valve stem sideways, or air will escape. If the hissing sound of air escaping from the tire is heard while checking the pressure, reposition the gauge to eliminate this leakage.
3. Remove the gauge.
4. Read the tire pressure on the gauge stem and compare it to the specification shown on the Tire and Loading Information label.
5. Add air to the tire as needed. If too much air is added, press the core of the valve stem briefly with the tip of the gauge stem to release pressure. Recheck the pressure and add or release air as needed.
6. Install the valve stem cap.
7. Check the pressure of all other tires, including the spare.

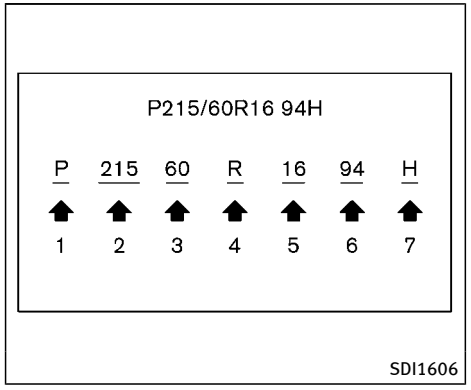
	SIZE	COLD TIRE INFLATION PRESSURE
FRONT ORIGINAL TIRE	P275/50R22 111H	240 kPa, 35 PSI
	P275/60R20 114H	240 kPa, 35 PSI
REAR ORIGINAL TIRE	P275/50R22 111H	240 kPa, 35 PSI
	P275/60R20 114H	240 kPa, 35 PSI
SPARE TIRE	275/60R20 115M	240 kPa, 35 PSI
	P275/60R20 114H	240 kPa, 35 PSI



Example

TIRE LABELING

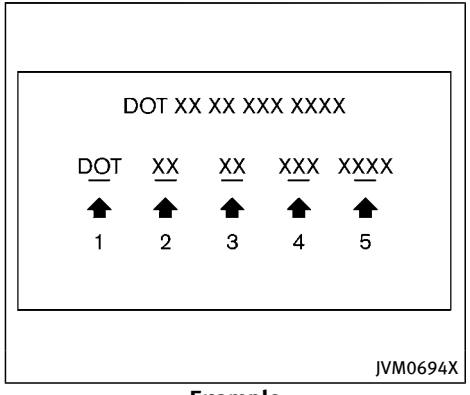
Federal law requires tire manufacturers to place standardized information on the sidewall of all tires. This information identifies and describes the fundamental characteristics of the tire and also provides the tire identification number (TIN) for safety standard certification. The TIN can be used to identify the tire in case of a recall.



Example

① Tire size (example: P215/60R16 94H)

1. P: The “P” indicates the tire is designed for passenger vehicles. (Not all tires have this information.)
2. Three-digit number (215): This number gives the width in millimeters of the tire from sidewall edge to sidewall edge.
3. Two-digit number (60): This number, known as the aspect ratio, gives the tire’s ratio of height to width.
4. R: The “R” stands for radial.
5. Two-digit number (16): This number is the wheel or rim diameter in inches.
6. Two- or three-digit number (94): This number is the tire’s load index. It is a measurement of how much weight each tire can support. You may not find this information on all tires because it is not required by law.
7. H: Tire speed rating. You should not drive the vehicle faster than the tire speed rating.



Example

② TIN (Tire Identification Number) for a new tire (example: DOT XX XX XXX XXXX)

1. DOT: Abbreviation for the “Department of Transportation”. The symbol can be placed above, below or to the left or right of the Tire Identification Number.
2. Two-digit code: Manufacturer’s identification mark
3. Two-digit code: Tire size
4. Three-digit code: Date of Manufacture
5. Four numbers represent the week and year the tire was built. For example, the numbers 3103 means the 31st week of 2003. If these numbers are missing, then look on the other sidewall of the tire.

③ Tire ply composition and material

The number of layers or plies of rubber-coated fabric in the tire.

Tire manufacturers also must indicate the materials in the tire, which include steel, nylon, polyester, and others.

④ Maximum permissible inflation pressure

This number is the greatest amount of air pressure that should be put in the tire. Do not exceed the maximum permissible inflation pressure.

⑤ Maximum load rating

This number indicates the maximum load in kilograms and pounds that can be carried by the tire. When replacing the tires on the vehicle, always use a tire that has the same load rating as the factory installed tire.

⑥ Term of “tubeless” or “tube type”

Indicates whether the tire requires an inner tube (“tube type”) or not (“tubeless”).

⑦ The word “radial”

The word “radial” is shown, if the tire has radial structure.

⑧ Manufacturer or brand name

Manufacturer or brand name is shown.

Other tire-related terminology:

In addition to the many terms that are defined throughout this section, Intended Outboard Sidewall is (1) the sidewall that contains a whitewall,

bears white lettering or bears manufacturer, brand and/or model name molding that is higher or deeper than the same molding on the other sidewall of the tire, or (2) the outward facing sidewall of an asymmetrical tire that has a particular side that must always face outward when mounted on a vehicle.

TYPES OF TIRES

WARNING

- **When changing or replacing tires, be sure all four tires are of the same type (Example: Summer, All Season or Snow) and construction. An INFINITI retailer may be able to help you with information about tire type, size, speed rating and availability.**
- **Replacement tires may have a lower speed rating than the factory equipped tires, and may not match the potential maximum vehicle speed. Never exceed the maximum speed rating of the tire.**
- **Replacing tires with those not originally specified by INFINITI could affect the proper operation of the TPMS.**
- **For additional information regarding tires, refer to "Important Tire Safety Information" (US) or "Tire Safety Information" (Canada) in the Warranty Information Booklet.**

All season tires

INFINITI specifies all season tires on some models to provide good performance all year, including snowy and icy road conditions. All Season tires are identified by ALL SEASON and/or M&S (Mud and Snow) on the tire sidewall. Snow tires have better snow traction than All Season tires and may be more appropriate in some areas.

Summer tires

INFINITI specifies summer tires on some models to provide superior performance on dry roads. Summer tire performance is substantially reduced in snow and ice. Summer tires do not have the tire traction rating M&S on the tire sidewall.

If you plan to operate your vehicle in snowy or icy conditions, INFINITI recommends the use of SNOW tires or ALL SEASON tires on all four wheels.

Snow tires

If snow tires are needed, it is necessary to select tires equivalent in size and load rating to the original equipment tires. If you do not, it can adversely affect the safety and handling of your vehicle.

Generally, snow tires will have lower speed ratings than factory equipped tires and may not match the potential maximum vehicle speed. Never exceed the maximum speed rating of the tire.

If you install snow tires, they must be the same size, brand, construction and tread pattern on all four wheels.

For additional traction on icy roads, studded tires may be used. However, some U.S. states and Canadian provinces prohibit their use. Check local, state and provincial laws before installing studded tires. Skid and traction capabilities of studded snow tires, on wet or dry surfaces, may be poorer than that of non-studded snow tires.

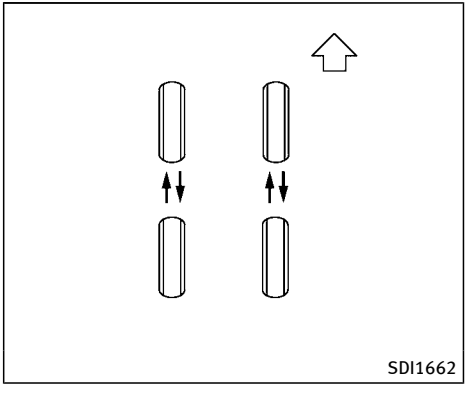
TIRE CHAINS

Use of tire chains may be prohibited according to location. Check the local laws before installing tire chains. When installing tire chains, make sure they are the proper size for the tires on your vehicle and are installed according to the chain manufacturer's suggestions. **Use only SAE Class S chains.** Class "S" chains are used on vehicles with restricted tire to vehicle clearance. Vehicles that can use Class "S" chains are designed to meet the SAE standard minimum clearances between the tire and the closest vehicle suspension or body component required to accommodate the use of a winter traction device (tire chains or cables). The minimum clearances are determined using the factory equipped tire size. Other types may damage your vehicle. Use chain tensioners when recommended by the tire chain manufacturer to ensure a tight fit. Loose end links of the tire chain must be secured or removed to prevent the possibility of whipping action damage to the fenders or underbody. If possible, avoid fully loading your vehicle when using tire chains. In addition, drive at a reduced speed. Otherwise, your vehicle may be damaged and/or vehicle handling and performance may be adversely affected.

Tire chains must be installed only on the rear wheels and not on the front wheels.

Never install tire chains on the full-size temporary use only spare tire (if so equipped).

Do not use tire chains on dry roads. Driving with tire chains in such conditions can cause damage to the various mechanisms of the vehicle due to some overstress.



CHANGING WHEELS AND TIRES

Tire rotation

INFINITI recommends rotating the tires every 5,000 miles (8,000 km). (See "Flat tire" (P.6-3) for tire replacing procedures.)

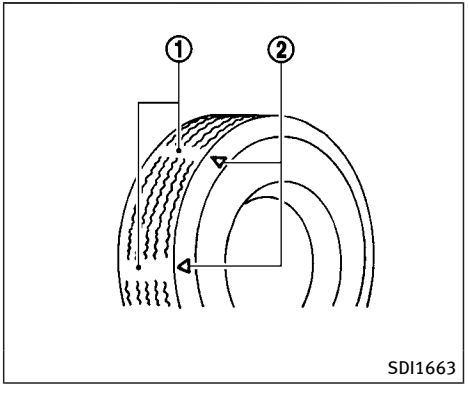
As soon as possible, tighten the wheel nuts to the specified torque with a torque wrench.

Wheel nut tightening torque:
98 ft-lb (133 N·m)

The wheel nuts must be kept tightened to the specification at all times. It is recommended that wheel nuts be tightened to the specification at each tire rotation interval.

WARNING

- **After rotating the tires, check and adjust the tire pressure.**
- **Retighten the wheel nuts when the vehicle has been driven for 600 miles (1,000 km) (also in cases of a flat tire, etc.).**
- **Do not include the full-size temporary use only spare tire (if so equipped) in the tire rotation.**
- **For additional information regarding tires, refer to "Important Tire Safety Information" (US) or "Tire Safety Information" (Canada) in the Warranty Information Booklet.**



1. Wear indicator
2. Wear indicator location mark

Tire wear and damage

WARNING

- **Tires should be periodically inspected for wear, cracking, bulging or objects caught in the tread. If excessive wear, cracks, bulging or deep cuts are found, the tire(s) should be replaced.**

- **The original tires have built-in tread wear indicators. When wear indicators are visible, the tire(s) should be replaced.**
- **Tires degrade with age and use. Have tires, including the spare, over 6 years old checked by a qualified technician, because some tire damage may not be obvious. Replace the tires as necessary to prevent tire failure and possible personal injury.**
- **Improper service of the spare tire may result in serious personal injury. If it is necessary to repair the spare tire, it is recommended you visit an INFINITI retailer for this service.**
- **For additional information regarding tires, refer to "Important Tire Safety Information" (US) or "Tire Safety Information" (Canada) in the Warranty Information Booklet.**

Replacing wheels and tires

When replacing a tire, use the same size, tread design, speed rating and load carrying capacity as originally equipped. (See "Specifications" (P.10-8) for recommended types and sizes of tires and wheels.)

WARNING

- **The use of tires other than those recommended or the mixed use of tires of different brands, construction (bias, bias-belted or radial), or tread patterns can adversely affect the ride, braking, handling, ground clearance, body-to-tire clearance, tire chain clearance, speedometer calibration, headlight aim and bumper height. Some of these effects may lead to accidents and could result in serious personal injury.**
- **For Two-Wheel Drive (2WD) models, if your vehicle was originally equipped with 4 tires that were the same size and you are only replacing 2 of the 4 tires, install the new tires on the rear axle. Placing new tires on the front axle may cause loss of vehicle control in some driving conditions and cause an accident and personal injury.**
- **If the wheels are changed for any reason, always replace with wheels which have the same off-set dimension. Wheels of a different off-set could cause premature tire wear, degrade vehicle handling characteristics and/or interference with the brake discs/drums. Such interference can lead to decreased braking efficiency and/or early brake pad/shoe wear. See "Wheels and tires" (P.10-9) for wheel off-set dimensions.**
- **Since the spare tire is not equipped with the TPMS, when a spare tire is mounted or a wheel is replaced, the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute. The light will remain on after 1 minute. Have your tires replaced and/or TPMS system reset as soon as possible. It is recommended you visit an INFINITI retailer for these services.**
- **Replacing tires with those not originally specified by INFINITI could affect the proper operation of the TPMS.**

- **The TPMS sensor may be damaged if it is not handled correctly. Be careful when handling the TPMS sensor.**
- **When replacing the TPMS sensor, the ID registration may be required. It is recommended you visit an INFINITI retailer for ID registration.**
- **Do not use a valve stem cap that is not specified by INFINITI. The valve stem cap may become stuck.**
- **Be sure that the valve stem caps are correctly fitted. Otherwise the valve may be clogged up with dirt and cause a malfunction or loss of pressure.**
- **Do not install a damaged or deformed wheel or tire even if it has been repaired. Such wheels or tires could have structural damage and could fail without warning.**
- **The use of retread tire is not recommended.**
- **For additional information regarding tires, refer to "Important Tire Safety Information" (US) or "Tire Safety Information" (Canada) in the Warranty Information Booklet.**

Four-Wheel Drive (4WD) models

CAUTION

- **Always use tires of the same type, size, brand, construction (bias, bias-belted or radial), and tread pattern on all four wheels. Failure to do so may result in a circumference difference between tires on the front and rear axles which will cause excessive tire wear and may damage the transmission, transfer case and differential gears.**
- **ONLY use spare tires specified for the 4WD model.**

If excessive tire wear is found, it is recommended that all four tires be replaced with tires of the same size, brand, construction and tread pattern. The tire pressure and wheel alignment should also be checked and corrected as necessary. It is recommended you visit an INFINITI retailer for this service.

Wheel balance

Unbalanced wheels may affect vehicle handling and tire life. Even with regular use, wheels can get out of balance. Therefore, they should be balanced as required.

Wheel balance service should be performed with the wheels off the vehicle. Spin balancing the wheels on the vehicle could lead to mechanical damage.

For additional information regarding tires, refer to "Important Tire Safety Information" (US) or "Tire Safety Information" (Canada) in the INFINITI Warranty Information Booklet.

Care of wheels

See "Cleaning exterior" (P.7-2) for details about care of the wheels.

Spare tire

Since the spare tire is not equipped with the TPMS, when a spare tire is mounted (TEMPORARY USE ONLY or conventional), the TPMS will not function.

Spare tire (FULL-SIZE TEMPORARY USE ONLY spare tire) (Applies ONLY to vehicles equipped with P275/50R22 tires):

Observe the following precautions if the full-size temporary use only spare tire must be used, otherwise your vehicle could be damaged or involved in an accident.

WARNING

- The full-size temporary use only spare tire should be used for emergency use. It should be replaced with the standard tire at the first opportunity to avoid possible tire or differential damage
- Drive carefully while the spare tire is installed. Avoid sharp turns and abrupt braking while driving. The vehicle driving performance may be affected when driving on wet or snow covered roads.
- When the spare tire is installed, the following systems may not work correctly.
 - — Tire Pressure Monitoring System (TPMS)
 - — Vehicle Dynamic Control (VDC) System
- Periodically check spare tire inflation pressure. Always keep the spare tire inflated to the pressure specification shown on the Tire and Loading Information label. For Tire and Loading Information label location, see “Tire and Loading Information label” in the index of this manual.
- With the spare tire installed do not drive your vehicle at speeds faster than 50 MPH (80 km/h).
- When driving on roads covered with snow or ice, the spare tire should be used on the front wheels and original tire used on the rear wheels (drive wheels). Use tire chains only on the two rear original tires.
- Do not use the spare tire on other vehicles.
- Do not use more than one spare tire at the same time.

CAUTION

Do not use tire chains on the spare tire. Tire chains will not fit properly and may cause damage to the vehicle.

9 Maintenance and schedules

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Some day-to-day and regular maintenance is essential to maintain your vehicle's good mechanical condition, as well as its emission and engine performance.

It is the owner's responsibility to make sure that the scheduled maintenance, as well as general maintenance, is performed.

As the vehicle owner, you are the only one who can ensure that your vehicle receives the proper maintenance. You are a vital link in the maintenance chain.

GENERAL MAINTENANCE

General maintenance includes those items which should be checked during normal day-to-day operation. They are essential for proper vehicle operation. It is your responsibility to perform these procedures regularly as prescribed.

Performing general maintenance checks requires minimal mechanical skill and only a few general automotive tools.

These checks or inspections can be done by yourself, a qualified technician or, if you prefer, an INFINITI retailer.

SCHEDULED MAINTENANCE

The maintenance items listed in this section are required to be serviced at regular intervals. However, under severe driving conditions, additional or more frequent maintenance will be required.

WHERE TO GO FOR SERVICE

If maintenance service is required or your vehicle appears to malfunction, have the systems checked and serviced. It is recommended you visit an INFINITI retailer for this service.

INFINITI technicians are well-trained specialists and are kept up to date with the latest service information through technical bulletins, service tips, and training programs. They are completely qualified to work on INFINITI vehicles **before** work begins.

You can be confident that an INFINITI retailer's service department performs the best job to meet the maintenance requirements on your vehicle.

During the normal day-to-day operation of the vehicle, general maintenance should be performed regularly as prescribed in this section. If you detect any unusual sounds, vibrations or smell, be sure to check for the cause or it is recommended you have an INFINITI retailer do it promptly. In addition, it is recommended you visit an INFINITI retailer if you think that repairs are required.

When performing any checks or maintenance work, closely observe "Maintenance precautions" (P.8-2).

EXPLANATION OF MAINTENANCE ITEMS

Additional information on the following items with "*" is found in the "8. Do-it yourself" section of this manual.

Outside the vehicle

The maintenance items listed here should be performed from time to time, unless otherwise specified.

Doors and engine hood: Check that all doors and the engine hood, operate properly. Also ensure that all latches lock securely. Lubricate hinges, latches, latch pins, rollers and links if necessary. Make sure that the secondary latch keeps the

hood from opening when the primary latch is released.

When driving in areas using road salt or other corrosive materials, check lubrication frequently.

Lights*: Clean the headlights on a regular basis. Make sure that the headlights, stop lights, tail lights, turn signal lights, and other lights are all operating properly and installed securely. Also check headlight aim.

Road wheel nuts (lug nuts)*: When checking the tires, make sure no wheel nuts are missing, and check for any loose wheel nuts. Tighten if necessary.

Tire rotation*: Tires should be rotated every 5,000 miles (8,000 km).

Tires*: Check the pressure with a gauge often and always prior to long distance trips. If necessary, adjust the pressure in all tires, including the spare, to the pressure specified. Check carefully for damage, cuts or excessive wear.

Tire Pressure Monitoring System (TPMS) transmitter components: Replace the TPMS transmitter grommet seal, valve core and cap when the tires are replaced due to wear or age.

Wheel alignment and balance: If the vehicle should pull to either side while driving on a straight and level road, or if you detect uneven or abnormal tire wear, there may be a need for wheel alignment.

If the steering wheel or seat vibrates at normal highway speeds, wheel balancing may be needed.

For additional information regarding tires, refer to “Important Tire Safety Information” (US) or “Tire Safety Information” (Canada) in the INFINITI Warranty Information Booklet.

Windshield: Clean the windshield on a regular basis. Check the windshield at least every six months for cracks or other damage. Have a damaged windshield repaired by a qualified repair facility.

Windshield wiper blades*: Check for cracks or wear if they do not wipe properly.

Inside the vehicle

The maintenance items listed here should be checked on a regular basis, such as when performing periodic maintenance, cleaning the vehicle, etc.

Accelerator pedal: Check the pedal for smooth operation and make sure the pedal does not catch or require uneven effort. Keep the floor mat away from the pedal.

Automatic transmission P (Park) mechanism: On a fairly steep hill, check that your vehicle is held securely with the shift lever in the P (Park) position without applying any brakes.

Brake pedal: Check the pedal for smooth operation. If the brake pedal suddenly goes down further than normal, the pedal feels spongy or the vehicle seems to take longer to stop, have your vehicle checked immediately. It is recommended you visit an INFINITI retailer for this service. Keep the floor mat away from the pedal.

Brakes: Check that the brakes do not pull the vehicle to one side when applied.

Parking brake: Check the parking brake operation regularly. The vehicle should be securely held on a fairly steep hill with only the parking brake applied. If the parking brake needs adjusted, it is recommended you visit an INFINITI retailer for this service.

Seat belts: Check that all parts of the seat belt system (for example, buckles, anchors, adjuster and retractors) operate properly and smoothly, and are installed securely. Check the belt webbing for cuts,

fraying, wear or damage.

Seats: Check seat position controls such as seat adjusters, seatback recliner, etc. to ensure they operate smoothly and that all latches lock securely in every position. Check that the head restraints/headrests move up and down smoothly and that the locks (if so equipped) hold securely in all latched positions.

Steering wheel: Check for changes in the steering conditions, such as excessive free play, hard steering or strange noises.

Warning lights and chimes: Make sure that all warning lights and chimes are operating properly.

Windshield defroster: Check that the air comes out of the defroster outlets properly and in sufficient quantity when operating the heater or air conditioner.

Windshield wiper and washer*: Check that the wipers and washer operate properly and that the wipers do not streak.

Under the hood and vehicle

The maintenance items listed here should be checked periodically (for example, each time you check the engine oil or refuel).

Battery*: Check the fluid level in each cell. It should be between the MAX and MIN lines. Vehicles operated in high temperatures or under severe condition require frequent checks of the battery fluid level.

NOTE:

Care should be taken to avoid situations that can lead to potential battery discharge and potential no-start conditions such as:

1. **Installation or extended use of electronic accessories that consume battery power when the engine is not running (Phone chargers, GPS, DVD players, etc.)**
2. **Vehicle is not driven regularly and/or only driven short distances.**

In these cases, the battery may need to be charged to maintain battery health.

Brake fluid level*: Make sure that the brake fluid level is between the MAX and MIN lines on the reservoir.

Engine coolant level*: Check the coolant level when the engine is cold.

Engine drive belts*: Make sure that no belt is frayed, worn, cracked or oily.

Engine oil level*: Check the level after parking the vehicle on a level spot and turning off the engine. Wait more than 15 minutes for the oil to drain back into the oil pan.

Exhaust system: Make sure there are no loose supports, cracks or holes. If the sound of the exhaust seems unusual or there is a smell of exhaust fumes, immediately have the exhaust system inspected. It is recommended you visit an INFINITI retailer for this service. (See “Precautions when starting and driving” (P.5-4) for exhaust gas (carbon monoxide).)

Fluid leaks: Check under the vehicle for fuel, oil, water or other fluid leaks after the vehicle has been parked for a while. Water dripping from the air conditioner after use is normal. If you should notice any leaks or if gasoline fumes are evident, check for the cause and have it corrected immediately.

Power steering fluid level* and lines: Check the level when the fluid is cold, with the engine off. Check the lines for proper attachment, leaks, cracks, etc.

Radiator and hoses: Check the front of the radiator and clean off any dirt, insects, leaves, etc., that may have accumulated. Make sure the hoses have no cracks,

deformation, rot or loose connections.

Underbody: The underbody is frequently exposed to corrosive substances such as those used on icy roads or to control dust. It is very important to remove these substances, otherwise rust will form on the floor pan, frame, fuel lines and around the exhaust system. At the end of winter, the underbody should be thoroughly flushed with plain water, being careful to clean those areas where mud and dirt may accumulate. For additional information, see “Cleaning exterior” (P.7-2).

Windshield washer fluid*: Check that there is adequate fluid in the reservoir.

EXPLANATION OF SCHEDULED MAINTENANCE ITEMS

The following descriptions are provided to give you a better understanding of the scheduled maintenance items that should be regularly checked or replaced. The maintenance schedule indicates at which mileage/time intervals each item requires service.

In addition to scheduled maintenance, your vehicle requires that some items be checked during normal day-to-day operation. Refer to “General maintenance” (P.9-2).

Items marked with “*” are recommended by INFINITI for reliable vehicle operation. You are not required to perform maintenance on these items in order to maintain the warranties which come with your vehicle. Other maintenance items and intervals are required.

When applicable, additional information can be found in the “8. Do-it yourself” section of this manual.

NOTE:

INFINITI does not advocate the use of non-OEM approved aftermarket flushing systems and strongly advises against performing these services on an INFINITI product. Many of the aftermarket flushing systems use non-OEM approved chemicals or solvents, the use of which has not been validated by INFINITI.

For recommended fuel, lubricants, fluids, grease, and refrigerant, refer to “Capacities and recommended fluids/lubricants” (P.10-2) of this manual.

EMISSION CONTROL SYSTEM MAINTENANCE

Drive belts*:

Check engine drive belts for wear, fraying or cracking and for proper tension. Replace any damaged drive belts.

Engine air filter:

Replace at specified intervals. When driving for prolonged periods in dusty conditions, check/replace the filter more frequently.

Engine coolant*

Replace coolant at the specified interval. When adding or replacing coolant, be sure to use only Genuine NISSAN Long Life Antifreeze/Coolant (blue) or equivalent with the proper mixture. (Refer to “Engine cooling system” (P.8-4) to determine the proper mixture for your area.)

NOTE:

Mixing any other type of coolant or the use of non-distilled water may reduce the recommended service interval of the coolant.

Engine oil and oil filter:

Replace engine oil and oil filter at the specified intervals. For recommended oil grade and viscosity refer to “Capacities and recommended fluids/lubricants” (P.10-2).

Engine valve clearance*:

Inspect only if valve noise increases. Adjust valve clearance if necessary.

Evaporative emissions control vapor lines*:

Check vapor lines for leaks or looseness. Tighten connections or replace parts as necessary.

Fuel lines*:

Check the fuel hoses, piping and connections for leaks, looseness, or deterioration. Tighten connections or replace parts as necessary.

Spark plugs:

Replace at specified intervals. Install new plugs of the type as originally equipped.

CHASSIS AND BODY MAINTENANCE

Brake lines and cables:

Visually inspect for proper installation. Check for chafing, cracks, deterioration, and signs of leaking. Replace any deteriorated or damaged parts immediately.

Brake pads and rotors:

Check for wear, deterioration and fluid leaks. Replace any deteriorated or damaged parts immediately.

Exhaust system:

Visually inspect the exhaust pipes, muffler and hangers for leaks, cracks, deterioration, and damage. Tighten connections or replace parts as necessary.

In-cabin microfilter:

Replace at specified intervals. When driving for prolonged periods in dusty conditions, replace the filter more frequently.

Propeller shaft(s):

Check for damage, looseness, and grease leakage. (4WD/RWD)

Steering gear and linkage, axle and suspension parts, drive shaft boots:

Check for damage, looseness, and leakage of oil or grease. Under severe driving conditions, inspect more frequently.

Tire rotation:

Tires should be rotated every 5,000 miles (8,000 km) according to the instructions under “Explanation of scheduled maintenance items” (P.9-5). When rotating tires, check for damage and uneven wear. Replace if necessary.

Transmission fluid/oil, differential oil and transfer case oil:

Visually inspect for signs of leakage at specified intervals.

MAINTENANCE SCHEDULES

To help ensure smooth, safe and economical driving, INFINITI provides two maintenance schedules that may be used, depending upon the conditions in which you usually drive. These schedules contain both distance and time intervals, up to 120,000 miles (192,000 km)/144 months. For most people, the odometer reading will indicate when service is needed. However, if you drive very little, your vehicle should be serviced at the regular time intervals shown in the schedule.

After 120,000 miles (192,000 km)/144 months, continue maintenance at the same mileage/time intervals.

ADDITIONAL MAINTENANCE ITEMS FOR SEVERE OPERATING CONDITIONS

Additional maintenance items for severe operating conditions; should be performed on vehicles that are driven under especially demanding conditions. Additional maintenance items should be performed if you primarily operate your vehicle under the following conditions:

- Repeated short trips of less than 5 miles (8 km).
- Repeated short trips of less than 10 miles (16 km) with outside temperatures remaining below freezing.
- Operating in hot weather in stop-and-go "rush hour" traffic.
- Extensive idling and/or low speed driving for long distances, such as police, taxi or door-to-door delivery use.
- Driving in dusty conditions.
- Driving on rough, muddy or salt spread roads.
- Using a car-top carrier.

NOTE:

For vehicles operated in Canada, both standard and severe maintenance items should be performed at every interval.

STANDARD MAINTENANCE

The following tables show the standard maintenance schedule. Depending upon weather and atmospheric conditions, varying road surfaces, individual driving habits and vehicle usage, additional or more frequent maintenance may be required.

After 120,000 miles (192,000 km)/144 months, continue maintenance at the same mileage/time intervals.

EMISSION CONTROL SYSTEM MAINTENANCE

Abbreviations: I = Inspect and correct or replace as necessary, R = Replace

MAINTENANCE OPERATION Perform at number of miles, kilometers or months, whichever comes first.	Miles × 1,000 (km × 1,000) Months	MAINTENANCE INTERVAL											
		5 (8) 6	10 (16) 12	15 (24) 18	20 (32) 24	25 (40) 30	30 (48) 36	35 (56) 42	40 (64) 48	45 (72) 54	50 (80) 60	55 (88) 66	60 (96) 72
Drive belts	See NOTE (1)								I*		I*		I*
Air cleaner filter	See NOTE (2)						R						R
EVAP vapor lines					I*				I*				I*
Fuel lines					I*				I*				I*
Fuel filter	See NOTE (3)												
Engine coolant*	See NOTE (4)(5)												
Engine oil		R	R	R	R	R	R	R	R	R	R	R	R
Engine oil filter		R	R	R	R	R	R	R	R	R	R	R	R
Spark plugs	See NOTE (6)	Replace every 105,000 miles (168,000 km)											
Intake and exhaust valve clearance*	See NOTE (7)												

MAINTENANCE OPERATION Perform at number of miles, kilometers or months, whichever comes first.	Miles × 1,000 (km × 1,000) Months	MAINTENANCE INTERVAL											
		65 (104) 78	70 (112) 84	75 (120) 90	80 (128) 96	85 (136) 102	90 (144) 108	95 (152) 114	100 (160) 120	105 (168) 126	110 (176) 132	115 (184) 138	120 (192) 144
Drive belts	See NOTE (1)		I*		I*		I*		I*		I*		I*
Air cleaner filter	See NOTE (2)						R						R
EVAP vapor lines					I*				I*				I*
Fuel lines					I*				I*				I*
Fuel filter	See NOTE (3)												
Engine coolant*	See NOTE (4)(5)												
Engine oil		R	R	R	R	R	R	R	R	R	R	R	R
Engine oil filter		R	R	R	R	R	R	R	R	R	R	R	R
Spark plugs	See NOTE (6)	Replace every 105,000 miles (168,000 km)											
Intake and exhaust valve clearance*	See NOTE (7)												

NOTE:

(1) After 40,000 miles (64,000 km) or 48 months, inspect every 10,000 miles (16,000 km) or 12 months. Replace the drive belts if found damaged.

(2) If operating mainly in dusty conditions, more frequent maintenance may be required.

(3) Periodic maintenance is not required.

(4) First replacement interval is 105,000 miles (168,000 km) or 84 months. After first replacement, replace every 75,000 miles (120,000 km) or 60 months.

(5) Use only Genuine NISSAN Long Life Antifreeze/Coolant (blue) or equivalent with proper mixture ratio of 50% antifreeze and 50% demineralized or distilled water. Mixing any other type of coolant or the use of non-distilled water may reduce the life expectancy of the factory fill coolant.

(6) Replace spark plug when the plug gap exceeds 0.053 in (1.35 mm) even if within specified replacement mileage.

(7) Periodic maintenance is not required. However, if valve noise increases, inspect valve clearance.

***: Maintenance items and intervals with "*" are recommended by INFINITI for reliable vehicle operation. The owner need not to perform such maintenance in order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required.**

CHASSIS AND BODY MAINTENANCE

Abbreviations: I = Inspect and correct or replace as necessary, R = Replace, L = Lubricate

MAINTENANCE OPERATION Perform at of miles, kilometers or months, whichever comes first.	Miles × 1,000 (km × 1,000) Months	MAINTENANCE INTERVAL											
		5 (8) 6	10 (16) 12	15 (24) 18	20 (32) 24	25 (40) 30	30 (48) 36	35 (56) 42	40 (64) 48	45 (72) 54	50 (80) 60	55 (88) 66	60 (96) 72
Brake lines and cables			I		I		I		I		I		I
Brake pads and rotors★			I		I		I		I		I		I
Brake fluid★					R				R				R
Automatic transmission fluid	See NOTE (1)												
Transfer fluid and differential gear oil	See NOTE (2)		I		I		I		I		I		I
Steering gear and linkage, axle and suspension parts ★					I				I				I
Tire rotation	See NOTE (3)												
Propeller shaft and drive shaft boots (4WD models) ★			I		I		I		I		I		I
Propeller shaft grease (4WD models)			L		L		L		L		L		L
Exhaust system★					I				I				I
In-cabin microfilter				R			R			R			R
Intelligent Key battery				R			R			R			R

MAINTENANCE OPERATION Perform at of miles, kilometers or months, whichever comes first.	Miles × 1,000 (km × 1,000) Months	MAINTENANCE INTERVAL											
		65 (104) 78	70 (112) 84	75 (120) 90	80 (128) 96	85 (136) 102	90 (144) 108	95 (152) 114	100 (160) 120	105 (168) 126	110 (176) 132	115 (184) 138	120 (192) 144
Brake lines & cables			I		I		I		I		I		I
Brake pads & rotors★			I		I		I		I		I		I
Brake fluid★					R				R				R
Automatic transmission fluid	See NOTE (1)												
Transfer fluid & differential gear oil	See NOTE (2)		I		I		I		I		I		I
Steering gear & linkage, axle & suspension parts★					I				I				I
Tire rotation	See NOTE (3)												
Propeller shaft & drive shaft boots (4WD models) ★			I		I		I		I		I		I
Propeller shaft grease (4WD models)			L		L		L		L		L		L
Exhaust system★					I				I				I
In-cabin microfilter				R			R			R			R
Intelligent Key battery				R			R			R			R

NOTE:

Maintenance items with "★" should be performed more frequently according to "Maintenance under severe driving conditions" (P.9-13).

(1) Periodic maintenance is not required.

(2) If towing trailer, using a camper or car-top carrier, or driving on rough or muddy roads, change (not just inspect) oil at every 20,000 miles (32,000 km) or 24 months.

(3) Refer to "Tire rotation" under "General maintenance" (P.9-2).

MAINTENANCE UNDER SEVERE DRIVING CONDITIONS

The maintenance intervals shown on the preceding pages are for normal operating conditions. If the vehicle is mainly operated under severe driving conditions as shown below, more frequent maintenance must be performed on the following items as shown in the table.

Severe driving conditions

- Repeated short trips of less than 5 miles (8 km).
- Repeated short trips of less than 10 miles (16 km) with outside temperatures remaining below freezing.
- Operating in hot weather in stop-and-go "rush hour" traffic.
- Extensive idling and/or low speed driving for long distances, such as police, taxi or door-to-door delivery use.
- Driving in dusty conditions.
- Driving on rough, muddy, or salt spread roads.
- Towing a trailer, using a camper or car-top carrier.

Maintenance operation: Inspect = Inspect and correct or replace as necessary.

Maintenance item	Maintenance operation	Maintenance interval
Brake fluid	Replace	Every 10,000 miles (16,000 km) or 12 months
Brake pads & rotors	Inspect	Every 5,000 miles (8,000 km) or 6 months
Steering gear & linkage, axle & suspension parts	Inspect	Every 5,000 miles (8,000 km) or 6 months
Propeller shaft & drive shaft boots (4WD models)	Inspect	Every 5,000 miles (8,000 km) or 6 months
Exhaust system	Inspect	Every 5,000 miles (8,000 km) or 6 months

MAINTENANCE LOG

5,000 Miles (8,000 km) or 6 Months Retailer Name: Date: Mileage: Retailer Stamp:	**10,000 Miles (16,000 km) or 12 Months** Retailer Name: Date: Mileage: Retailer Stamp:	**15,000 Miles (24,000 km) or 18 Months** Retailer Name: Date: Mileage: Retailer Stamp:
20,000 Miles (32,000 km) or 24 Months Retailer Name: Date: Mileage: Retailer Stamp:	**25,000 Miles (40,000 km) or 30 Months** Retailer Name: Date: Mileage: Retailer Stamp:	**30,000 Miles (48,000 km) or 36 Months** Retailer Name: Date: Mileage: Retailer Stamp:
35,000 Miles (56,000 km) or 42 Months Retailer Name: Date: Mileage: Retailer Stamp:	**40,000 Miles (64,000 km) or 48 Months** Retailer Name: Date: Mileage: Retailer Stamp:	**45,000 Miles (72,000 km) or 54 Months** Retailer Name: Date: Mileage: Retailer Stamp:

50,000 Miles (80,000 km) or 60 Months Retailer Name: Date: Mileage: Retailer Stamp:	**55,000 Miles (88,000 km) or 66 Months** Retailer Name: Date: Mileage: Retailer Stamp:	**60,000 Miles (96,000 km) or 72 Months** Retailer Name: Date: Mileage: Retailer Stamp:
65,000 Miles (104,000 km) or 78 Months Retailer Name: Date: Mileage: Retailer Stamp:	**70,000 Miles (112,000 km) or 84 Months** Retailer Name: Date: Mileage: Retailer Stamp:	**75,000 Miles (120,000 km) or 90 Months** Retailer Name: Date: Mileage: Retailer Stamp:
80,000 Miles (128,000 km) or 96 Months Retailer Name: Date: Mileage: Retailer Stamp:	**85,000 Miles (136,000 km) or 102 Months** Retailer Name: Date: Mileage: Retailer Stamp:	**90,000 Miles (144,000 km) or 108 Months** Retailer Name: Date: Mileage: Retailer Stamp:

95,000 Miles (152,000 km) or 114 Months Retailer Name: Date: Mileage: Retailer Stamp:	**100,000 Miles (160,000 km) or 120 Months** Retailer Name: Date: Mileage: Retailer Stamp:	**105,000 Miles (168,000 km) or 126 Months** Retailer Name: Date: Mileage: Retailer Stamp:
110,000 Miles (176,000 km) or 132 Months Retailer Name: Date: Mileage: Retailer Stamp:	**115,000 Miles (184,000 km) or 138 Months** Retailer Name: Date: Mileage: Retailer Stamp:	**120,000 Miles (192,000 km) or 144 Months** Retailer Name: Date: Mileage: Retailer Stamp:

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CAPACITIES AND RECOMMENDED FLUIDS/ LUBRICANTS

The following are approximate capacities. The actual refill capacities may be a little different. When refilling, follow the procedure instructed in the "8. Do-it-yourself" section to determine the proper refill capacity.

Fluid type		Capacity (Approximate)			Recommended fluids/lubricants
		Metric Measure	US measure	Imp measure	
Fuel		98.4 L	26 gal	21-5/8 gal	• See "Fuel information" (P.10-4).
Engine oil*1 Drain and refill *1: For additional information, see "Changing engine oil and filter" (P.8-6).	With oil filter change	6.5 L	6-7/8 qt	5-3/4 qt	• Genuine "NISSAN Motor Oil 0W-20 SN" is recommended. • If the above motor oil is not available, use an equivalent motor oil that matches the above grade and viscosity. For additional information, see "Engine oil and oil filter recommendation" (P.10-6).
	Without oil filter change	6.2 L	6-1/2 qt	5-1/2 qt	
Engine coolant With reservoir		16.3 L	17-1/4 qt	14-3/8 qt	• Pre-diluted Genuine NISSAN Long Life Antifreeze/Coolant (blue) or equivalent
Automatic transmission fluid (ATF)		—	—	—	• Genuine NISSAN Matic S ATF • INFINITI recommends using Genuine NISSAN Matic S ATF ONLY in INFINITI automatic transmissions. Do not mix with other fluids. Using fluids that are not equivalent to Genuine NISSAN MATIC S ATF may damage the automatic transmission. Damage caused by the use of fluids other than as recommended is not covered under the INFINITI's new vehicle limited warranty.
Transfer fluid		—	—	—	• Genuine NISSAN Transfer Fluid for ATX90A transfer • Using transfer fluid other than Genuine NISSAN Transfer Fluid may damage the transfer. Damage caused by use of other fluids is not covered by the INFINITI new vehicle limited warranty.
Front differential gear oil		—	—	—	• Genuine NISSAN Differential Oil Hypoid Super GL-5 80W-90 or equivalent conventional (non-synthetic) oil.
Rear differential gear oil		—	—	—	• API GL-5 synthetic gear oil, Viscosity SAE 75W-90
Power steering fluid (PSF)		Refill to the proper oil level according to the instructions in the "8. Do-it-yourself" section.			• Genuine NISSAN PSF or equivalent • DEXRON™ VI type ATF may also be used.
Brake fluid					• Genuine NISSAN Super Heavy Duty Brake Fluid*4 or equivalent DOT 3 *4: Available in mainland U.S.A. through an INFINITI retailer.

Fluid type	Capacity (Approximate)			Recommended fluids/lubricants
	Metric Measure	US measure	Imp measure	
Suspension fluid	—	—	—	• Genuine NISSAN Hydraulic Suspension Fluid • Using Hydraulic Suspension fluid other than Genuine NISSAN Hydraulic Suspension fluid will damage the Hydraulic Suspension, which is not covered by the INFINITI new vehicle limited warranty. It is recommended that you see an INFINITI retailer for recommended hydraulic suspension fluid.
Multi-purpose grease	—	—	—	• NLGI No. 2 (Lithium soap base)
Air conditioning system refrigerant	—	—	—	• HFC-134a (R-134a) • For additional information, see “Vehicle identification” (P.10-11) for air conditioner specification label.
Air conditioning system lubricants	—	—	—	• NISSAN A/C System Oil Type S or exact equivalent
Window washer fluid	—	—	—	• Genuine NISSAN Windshield Washer Concentrate Cleaner & Antifreeze or equivalent

FUEL INFORMATION

VK56VD engine

INFINITI recommends the use of unleaded premium gasoline with an octane rating of at least 91 AKI (Anti-Knock Index) number (Research octane number 96).

If unleaded premium gasoline is not available, you may use unleaded regular gasoline with an octane rating of at least 87 AKI number (Research octane number 91), but you may notice a decrease in performance.

⚠ CAUTION

- **Using a fuel other than that specified could adversely affect the emission control system, and may also affect warranty coverage.**
- **Under no circumstances should a leaded gasoline be used, because this will damage the three-way catalyst.**
- **Do not use E-15 or E-85 fuel in your vehicle. Your vehicle is not designed to run on E-15 or E-85 fuel. Using E-15 or E-85 fuel in a vehicle not specifically designed for E-15 or E-85 fuel can adversely affect the emission control devices and systems of the vehicle. Damage caused by such fuel is not covered by the INFINITI new vehicle limited warranty.**
- **Do not use fuel that contains the octane booster methylcyclopentadienyl manganese tricarbonyl (MMT). Using fuel containing MMT may adversely affect vehicle performance and vehicle emissions. Not all fuel dispensers are labeled to indicate MMT content, so you may have to consult your gasoline retailer for more details. Note that Federal and California laws prohibit the use of MMT in reformulated gasoline.**
- **U.S. government regulations require ethanol dispensing pumps to be identified by a small, square, orange and black label with the common abbreviation or the appropriate percentage for that region.**

Gasoline specifications

INFINITI recommends using gasoline that meets the World-Wide Fuel Charter (WWFC) specifications where it is available. Many of the automobile manufacturers developed this specification to improve emission system and vehicle performance. Ask your service station manager if the gasoline meets the World-Wide Fuel Charter (WWFC) specifications.

Reformulated gasoline

Some fuel suppliers are now producing reformulated gasolines. These gasolines are specially designed to reduce vehicle emissions. INFINITI supports efforts towards cleaner air and suggests that you use reformulated gasoline when available.

Gasoline containing oxygenates

Some fuel suppliers sell gasoline containing oxygenates such as ethanol, MTBE and methanol with or without advertising their presence. INFINITI does not recommend the use of fuels of which the oxygenate content and the fuel compatibility for your INFINITI cannot be readily determined. If in doubt, ask your service station manager.

If you use oxygenate-blend gasoline, please take the following precautions as the usage of such fuels may cause vehicle performance problems and/or fuel system damage.

- **The fuel should be unleaded and have an octane rating no lower than that**

recommended for unleaded gasoline.

- **If an oxygenate-blend, excepting a methanol blend, is used, it should contain no more than 10% oxygenate. (MTBE may, however, be added up to 15%.)**
- **E-15 fuel contains more than 10% oxygenate. E-15 fuel will adversely affect the emission control devices and systems of the vehicle and should not be used. Damage caused by such fuel is not covered by the INFINITI new vehicle limited warranty.**
- **If a methanol blend is used, it should contain no more than 5% methanol (methyl alcohol, wood alcohol). It should also contain a suitable amount of appropriate cosolvents and corrosion inhibitors. If not properly formulated with appropriate cosolvents and corrosion inhibitors, such methanol blends may cause fuel system damage and/or vehicle performance problems. At this time, sufficient data is not available to ensure that all methanol blends are suitable for use in INFINITI vehicles.**

If any undesirable driveability problems such as engine stalling or hard hot starting are experienced after using oxygenate-blend fuels, immediately change to a non-oxygenate fuel or a fuel with a low blend of MTBE.

Take care not to spill gasoline during refueling. Gasoline containing oxygenates can cause paint damage.

E-15 fuel

E-15 fuel is a mixture of approximately 15% fuel ethanol and 85% unleaded gasoline. E-15 can only be used in vehicles designed to run on E-15 fuel. Do not use E-15 in your vehicle. U.S. government regulations require fuel ethanol dispensing pumps to be identified with small, square, orange and black label with the common abbreviation or the appropriate percentage for that region.

E-85 fuel

E-85 fuel is a mixture of approximately 85% fuel ethanol and 15% unleaded gasoline. E-85 can only be used in a Flexible Fuel Vehicle (FFV). Do not use E-85 fuel in your vehicle. U.S. government regulations require fuel ethanol dispensing pumps to be identified by a small, square, orange and black label with the common abbreviation or the appropriate percentage for that region.

Fuel containing MMT

MMT, or methylcyclopentadienyl manganese tricarbonyl, is an octane boosting additive. INFINITI does not recommend the use of fuel containing MMT. Such fuel may adversely affect vehicle performance, including the emissions control system. Note that while some fuel pumps label MMT content, not all do, so you may have to consult your gasoline retailer for more details.

Aftermarket fuel additives

INFINITI does not recommend the use of any aftermarket fuel additives (Example: fuel injector cleaner, octane booster, intake valve deposit removers, etc.) which are sold commercially. Many of these additives intended for gum, varnish or deposit removal may contain active solvent or similar ingredients that can be harmful to the fuel system and engine.

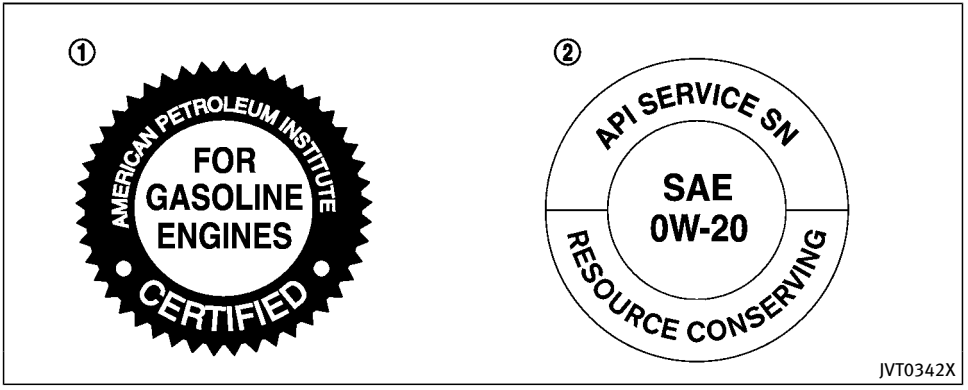
Octane rating tips

Using unleaded gasoline with an octane rating lower than recommended above can cause persistent, heavy spark knock. (Spark knock is a metallic rapping noise.)

If severe, this can lead to engine damage. If you detect a persistent heavy spark knock even when using gasoline of the stated octane rating, or if you hear steady spark knock while holding a steady speed on level roads, it is recommended you have an INFINITI retailer correct the condition. Failure to correct the condition is misuse of the vehicle, for which INFINITI is not responsible.

Incorrect ignition timing will result in knocking, after-run or overheating. This in turn may cause excessive fuel consumption or damage to the engine. If any of the above symptoms are encountered, have your vehicle checked. It is recommended you visit an INFINITI retailer for servicing.

However, now and then you may notice light spark knock for a short time while accelerating or driving up hills. This is no cause for concern, because you get the greatest fuel benefit when there is light spark knock for a short time under heavy engine load.



① API certification mark
② API service symbol

ENGINE OIL AND OIL FILTER RECOMMENDATION

Selecting the correct oil

It is essential to choose the correct grade, quality, and viscosity engine oil to ensure satisfactory engine life and performance, see “Capacities and recommended fluids/lubricants” (P.10-2). INFINITI recommends the use of an energy conserving oil in order to improve fuel economy.

Select only engine oils that meet the American Petroleum Institute (API) certification or International Lubricant Standardization and Approval Committee (ILSAC) certification and SAE viscosity standard. These oils have the API certification mark on the front of the container. Oils which do not have the specified quality label should not be used as they could cause engine damage.

Oil additives

INFINITI does not recommend the use of oil additives. The use of an oil additive is not necessary when the proper oil type is used and maintenance intervals are followed.

Oil which may contain foreign matter or has been previously used should not be used.

Oil viscosity

The engine oil viscosity or thickness changes with temperature. Because of this, it is important that the engine oil viscosity be selected based on the temperatures at which the vehicle will be operated before the next oil change. Choosing an oil viscosity other than that recommended could cause serious engine damage.

Selecting the correct oil filter

Your new vehicle is equipped with a high-quality genuine NISSAN oil filter. When replacing, use the genuine oil filter or its equivalent for the reason described in change intervals.

Change intervals

The oil and oil filter change intervals for your engine are based on the use of the specified quality oils and filters. Oil and filter other than the specified quality, or oil and filter change intervals longer than recommended could reduce engine life. Damage to engines caused by improper maintenance or use of incorrect oil and filter quality and/or viscosity is not covered by the new INFINITI vehicle limited warranties.

Your engine was filled with a high quality engine oil when it was built. You do not have to change the oil before the first recommended change interval. Oil and filter change intervals depend upon how you use your vehicle.

AIR CONDITIONING SYSTEM REFRIGERANT AND LUBRICANT RECOMMENDATIONS

The air conditioning system in your INFINITI vehicle must be charged with the refrigerant HFC-134a (R-134a) and the lubricant, NISSAN A/C system oil Type S or the exact equivalents.

CAUTION

The use of any other refrigerant or lubricant may cause severe damage to the air conditioning system and may require the replacement of all air conditioner system components.

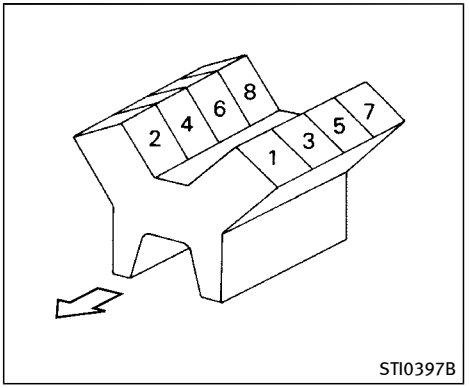
The refrigerant HFC-134a (R-134a) in your INFINITI vehicle will not harm the earth's ozone layer. Although this refrigerant does not affect the earth's atmosphere, certain governmental regulations require the recovery and recycling of any refrigerant during automotive air conditioning system service. Your INFINITI retailer has the trained technicians and equipment needed to recover and recycle your air conditioning system refrigerant.

It is recommended you visit an INFINITI retailer when servicing your air conditioning system.

SPECIFICATIONS

ENGINE

Model		VK56VD
Type		Gasoline, 4-cycle
Cylinder arrangement		8-cylinder, V-slanted at 90°
Bore × Stroke	in (mm)	3.858 × 3.622 (98 × 92)
Displacement	cu in (cm^3)	338.78 (5,552)
Firing order		1-8-7-3-6-5-4-2
Idle speed	rpm	See the emission control information label on the underside of the hood.
Ignition timing (B.T.D.C.)	degree/rpm	
Spark plug	Standard	DILKAR7B11
Spark plug gap (Normal)	in (mm)	0.043 (1.1)
Camshaft operation		Timing chain



STI0397B

This spark ignition system complies with the Canadian standard ICES-002.

WHEELS AND TIRES

Road wheel

Type	Size	Offset in (mm)
Conventional	20 × 8J	1.18 (30)
	22 × 8J	
Spare	20 × 8J	

Tire

Type	Size	Pressure PSI (kPa) [Cold]
Conventional	P275/60R20 114H	35 (240)
	P275/50R22 111H	
Spare	275/60R20 115M	
	P275/60R20 114H	

DIMENSIONS

Overall length (with front license plate)	in (mm)	208.9 (5,305)
Overall length (without front license plate)	in (mm)	208.7 (5,300)
Overall width	in (mm)	79.9 (2,030)
Overall height	in (mm)	75.8 (1,925)
Front tread	in (mm)	67.5 (1,715)
Rear tread	in (mm)	67.9 (1,725)
Wheelbase	in (mm)	121.1 (3,075)

WHEN TRAVELING OR REGISTERING IN ANOTHER COUNTRY

If you plan to travel in another country, you should first find out if the fuel available is suitable for your vehicle's engine.

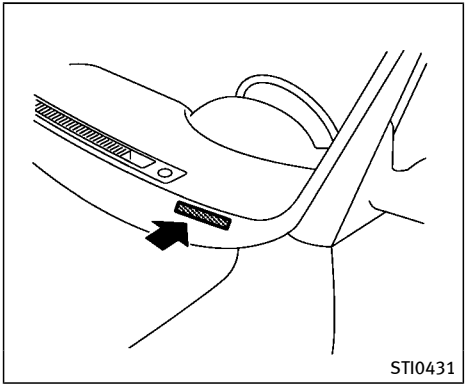
Using fuel with too low an octane rating may cause engine damage. All gasoline vehicles must be operated with unleaded gasoline. Therefore, avoid taking your vehicle to areas where appropriate fuel is not available.

When transferring the registration of your vehicle to another country, state, province or district, it may be necessary to modify the vehicle to meet local laws and regulations.

The laws and regulations for motor vehicle emission control and safety standards vary according to the country, state, province or district; therefore, vehicle specifications may differ.

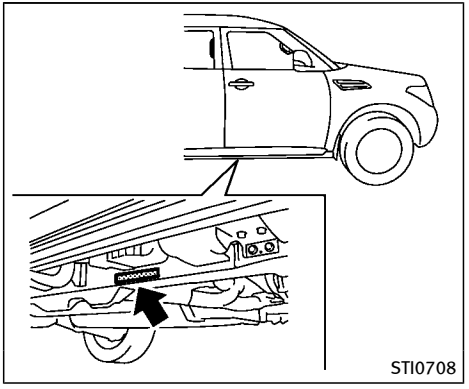
When any vehicle is to be taken into another country, state, province or district and registered, its modifications, transportation, and registration are the responsibility of the user. INFINITI is not responsible for any inconvenience that may result.

VEHICLE IDENTIFICATION


STI0431

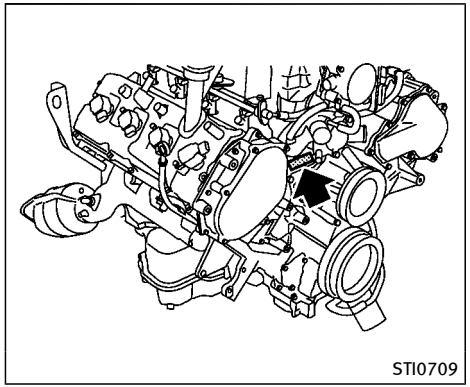
VEHICLE IDENTIFICATION NUMBER (VIN) PLATE

The vehicle identification number plate is attached as shown. This number is the identification for your vehicle and is used in the vehicle registration.


STI0708

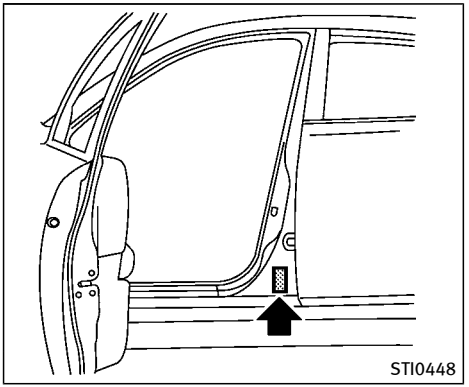
VEHICLE IDENTIFICATION NUMBER (chassis number)

The number is stamped as shown.



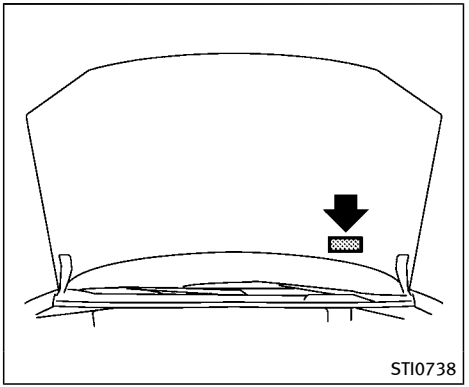
ENGINE SERIAL NUMBER

The number is stamped on the engine as shown.



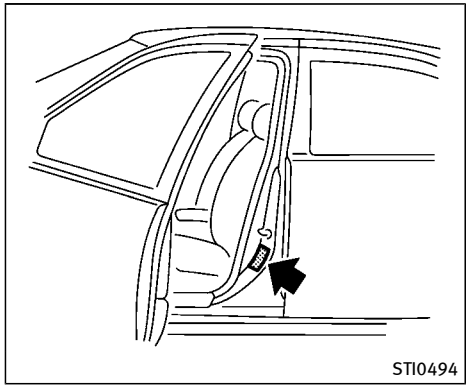
F.M.V.S.S./C.M.V.S.S. CERTIFICATION LABEL

The Federal/Canadian Motor Vehicle Safety Standards (F.M.V.S.S./C.M.V.S.S.) certification label is affixed as shown. This label contains valuable vehicle information, such as: Gross Vehicle Weight Ratings (GVWR), Gross Axle Weight Rating (GAWR), month and year of manufacture, Vehicle Identification Number (VIN), etc. Review it carefully.



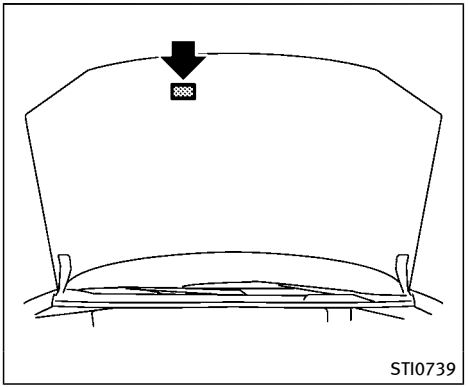
EMISSION CONTROL INFORMATION LABEL

The emission control information label is attached as shown.



TIRE AND LOADING INFORMATION LABEL

The cold tire pressure is shown on the Tire and Loading Information label affixed to the pillar as illustrated.



AIR CONDITIONER SPECIFICATION LABEL

The air conditioner specification label is attached as shown.

INSTALLING FRONT LICENSE PLATE

To install the front license plate bracket to your vehicle, it is recommended you contact an INFINITI retailer.

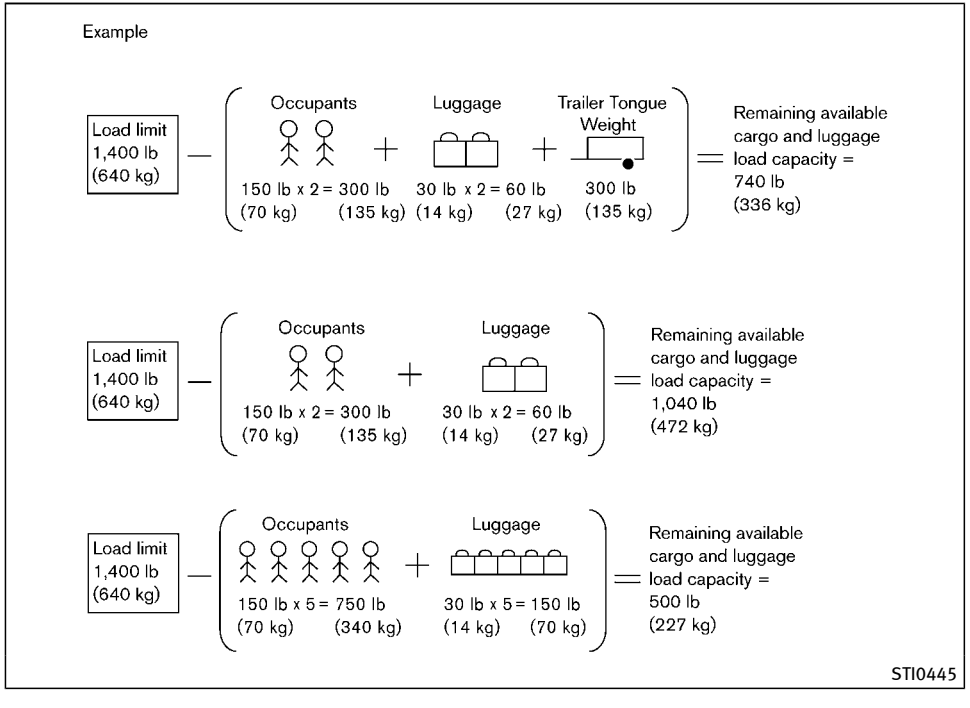
WARNING

- **It is extremely dangerous to ride in a cargo area inside the vehicle. In a collision, people riding in these areas are more likely to be seriously injured or killed.**
- **Do not allow people to ride in any area of vehicle that is not equipped with seats and seat belts.**
- **Be sure everyone in your vehicle is in a seat and using a seat belt properly.**

TERMS

It is important to familiarize yourself with the following terms before loading your vehicle:

- Curb Weight (actual weight of your vehicle) - vehicle weight including: standard and optional equipment, fluids, emergency tools, and spare tire assembly. This weight **does not** include passengers and cargo.
- GVW (Gross Vehicle Weight) - curb weight plus the combined weight of passengers and cargo.
- GVWR (Gross Vehicle Weight Rating) - maximum total combined weight of the unloaded vehicle, passengers, luggage, hitch, trailer tongue load and any other optional equipment. This information is located on the F.M.V.S.S./C.M.V.S.S. label.
- GAWR (Gross Axle Weight Rating) - maximum weight (load) limit specified for the front or rear axle. This information is located on the F.M.V.S.S./C.M.V.S.S. label.
- GCWR (Gross Combined Weight Rating) - The maximum total weight rating of the vehicle, passengers, cargo, and trailer.
- Vehicle Capacity Weight, Load limit, Total load capacity - maximum total weight limit specified of the load (passengers and cargo) for the vehicle. This is the maximum combined weight of occupants and cargo that can be loaded into the vehicle. If the vehicle is used to tow a trailer, the trailer tongue weight must be included as part of the cargo load. This information is located on the Tire and Loading Information label.
- Cargo capacity - permissible weight of cargo, the weight of total occupants weight subtracted from the load limit.



VEHICLE LOAD CAPACITY

Do not exceed the load limit of your vehicle shown as “The combined weight of occupants and cargo” on the Tire and Loading Information label. Do not exceed the number of occupants shown as “Seating Capacity” on the Tire and Loading Information label.

To get “the combined weight of occupants and cargo”, add the weight of all occupants, then add the total luggage weight. Examples are shown in the illustration.

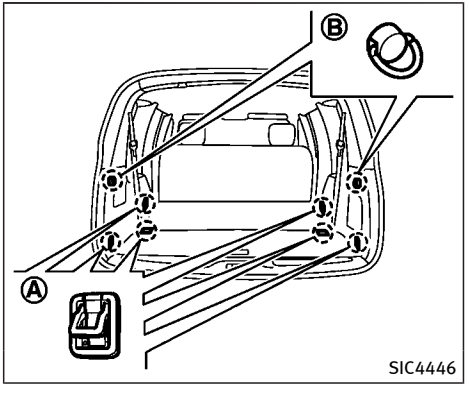
Steps for determining correct load limit

1. Locate the statement “The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs” on your vehicle’s placard.
2. Determine the combined weight of the driver and passengers that will be riding in your vehicle.

3. Subtract the combined weight of the driver and passengers from XXX kg or XXX lbs.
4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the XXX amount equals 1400 lbs. and there will be five 150 lb. passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs. (1400 – 750 (5 x 150) = 650 lbs) or (640 – 340 (5 x 70) = 300 kg.)
5. Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in Step 4.
6. If your vehicle will be towing a trailer, load from your trailer will be transferred to your vehicle. Consult this manual to determine how this reduces the available cargo and luggage load capacity of your vehicle.

Before driving a loaded vehicle, confirm that you do not exceed the Gross Vehicle Weight Rating (GVWR) or the Gross Axle Weight Rating (GAWR) for your vehicle. (See “Measurement of weights” (P.10-17).)

Also check tires for proper inflation pressures. See the Tire and Loading Information label.



SECURING THE LOAD

There are tie down hooks located in the cargo area as shown. The tie down hooks can be used to secure cargo with ropes or other types of straps.

Do not apply a total load of more than 22 lb (10 kg) to a single hook Ⓐ or 7 lb (3 kg) to a single hook Ⓑ when securing cargo.

⚠ WARNING

- **Properly secure all cargo with ropes or straps to help prevent it from sliding or shifting. Do not place cargo higher than**

the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.

- **The child restraint top tether strap may be damaged by contact with items in the cargo area. Secure any items in the cargo area. Your child could be seriously injured or killed in a collision if the top tether strap is damaged.**
- **Do not load your vehicle any heavier than the GVWR or the maximum front and rear GAWRs. If you do, parts of your vehicle can break, tire damage could occur, or it can change the way your vehicle handles. This could result in loss of control and cause personal injury.**

LOADING TIPS

- The GVW must not exceed GVWR or GAWR as specified on the F.M.V.S.S./C.M.V.S.S. certification label.
- Do not load the front and rear axle to the GAWR. Doing so will exceed the GVWR.

WARNING

- **Properly secure all cargo to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.**
- **Do not load your vehicle any heavier than the GVWR or the maximum front and rear GAWRs. If you do, parts of your vehicle can break, tire damage could occur, or it can change the way your vehicle handles. This could result in loss of control and cause personal injury.**
- **Overloading not only can shorten the life of your vehicle and the tire, but can cause unsafe vehicle handling and long braking distance. This may cause a premature tire failure, which could result in a serious accident and personal injury. Failures caused by overloading are not covered by the vehicle's warranty.**

MEASUREMENT OF WEIGHTS

Secure loose items to prevent weight shifts that could affect the balance of your vehicle. When the vehicle is loaded, drive to a scale and weigh the front and the rear wheels separately to determine axle loads. Individual axle loads should not exceed either of the gross axle weight ratings (GAWR). The total of the axle loads should not exceed the gross vehicle weight rating (GVWR). These ratings are given on the vehicle certification label. If weight ratings are exceeded, move or remove items to bring all weights below the ratings.

WARNING

Overloading or improper loading of a trailer and its cargo can adversely affect vehicle handling, braking and performance and may lead to accidents.

CAUTION

- **Do not tow a trailer or haul a heavy load for the first 500 miles (800 km). Your engine, axle or other parts could be damaged.**
- **For the first 500 miles (800 km) that you tow a trailer, do not drive over 50 MPH (80 km/h) and do not make starts at full throttle. This helps the engine and other parts of your vehicle wear in at the heavier loads.**

Your new vehicle was designed to be used primarily to carry passengers and cargo. Remember that towing a trailer places additional loads on your vehicle's engine, drivetrain, steering, braking and other systems.

An INFINITI Towing Guide (U.S. only) is available on the website at

www.InfinitiUSA.com. This guide includes information on trailer towing capability and the special equipment required for proper towing.

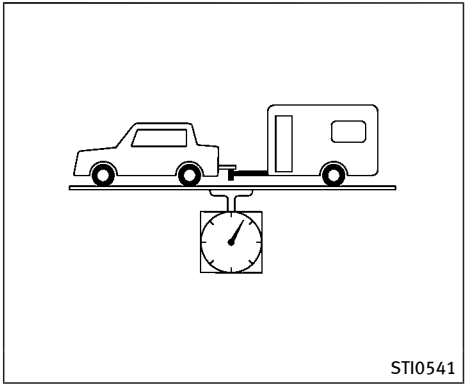
MAXIMUM LOAD LIMITS

Maximum trailer loads

Never allow the total trailer load to exceed the value specified in the "Towing load/ specification" (P.10-22). The total trailer load equals trailer weight plus its cargo weight.

- **When towing a trailer load of 3,500 lbs (1,587 kg) or more, trailers with a brake system MUST be used.**

The maximum Gross Combined Weight Rating (GCWR) should not exceed the value specified in the following "Towing Load/ Specification" chart.



The GCWR equals the combined weight of the towing vehicle (including passengers and cargo) plus the total trailer load. Towing loads greater than these or using improper towing equipment could adversely affect vehicle handling, braking and performance.

The ability of your vehicle to tow a trailer is not only related to the maximum trailer loads, but also the places you plan to tow. Tow weights appropriate for level highway driving may have to be reduced on very steep grades or for low traction situations (for example, on slippery boat ramps).

Temperature conditions can also affect

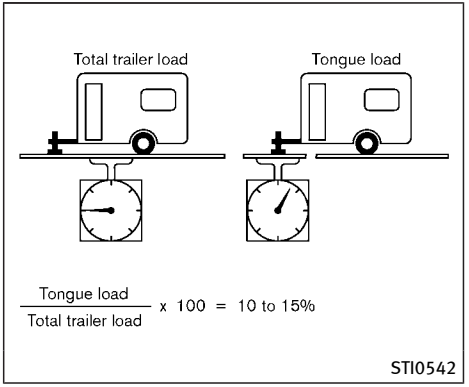
towing. For example, towing a heavy trailer in high outside temperatures on graded roads can affect engine performance and cause overheating. The transmission high fluid temperature and engine protection mode, which helps reduce the chance of transmission and engine damage, could activate and automatically decrease engine power. Vehicle speed may decrease under high load. Plan your trip carefully to account for trailer and vehicle load, weather and road conditions.

WARNING

Overheating can result in reduced engine power and vehicle speed. The reduced speed may be lower than other traffic, which could increase the chance of a collision. Be especially careful when driving. If the vehicle cannot maintain a safe driving speed, pull to the side of the road in a safe area. Allow the engine to cool and return to normal operation. See "If your vehicle overheats" (P.6-14).

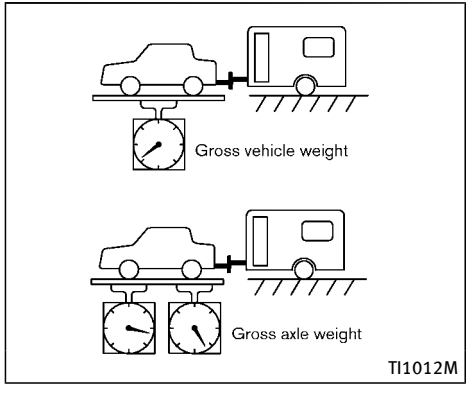
CAUTION

Vehicle damage resulting from improper towing procedures is not covered by INFINITI warranties.



Tongue load

When using a weight carrying or a weight distributing hitch, keep the tongue load between 10 to 15% of the total trailer load or use the trailer tongue load specified by the trailer manufacturer. The tongue load must be within the maximum tongue load limits shown in the following "Towing Load/Specification" chart. If the tongue load becomes excessive, rearrange cargo to allow for proper tongue load.



MAXIMUM GROSS VEHICLE WEIGHT (GVW)/MAXIMUM GROSS AXLE WEIGHT (GAW)

The GVW of the towing vehicle must not exceed the Gross Vehicle Weight Rating (GVWR) shown on the F.M.V.S.S./C.M.V.S.S. certification label. The GVW equals the combined weight of the unloaded vehicle, passengers, luggage, hitch, trailer tongue load and any other optional equipment. In addition, front or rear GAW must not exceed the Gross Axle Weight Rating (GAWR) shown on the F.M.V.S.S./C.M.V.S.S. certification label.

Towing capacities are calculated assuming a base vehicle with driver and any options required to achieve the rating. Additional passengers, cargo and/or optional equipment, such as the trailer hitch, will add weight to the vehicle and reduce your vehicle's maximum towing capacity and trailer tongue load.

The vehicle and trailer need to be weighed to confirm the vehicle is within the GVWR, Front GAWR, Rear GAWR, Gross Combined Weight Rating (GCWR) and Towing capacity.

All vehicle and trailer weights can be measured using platform type scales commonly found at truck stops, highway weigh stations, building supply centers or salvage yards.

To determine the available payload capacity for tongue/king pin load, use the following procedure.

1. Locate the GVWR on the F.M.V.S.S./C.M.V.S.S. certification label.
2. Weigh your vehicle on the scale with all of the passengers and cargo that are normally in the vehicle when towing a trailer.
3. Subtract the actual vehicle weight from the GVWR. The remaining amount is the available maximum tongue/king pin load.

To determine the available towing capacity, use the following procedure.

1. Find the GCWR for your vehicle on the "Towing Load/Specification" chart found later in this section.
2. Subtract the actual vehicle weight from the GCWR. The remaining amount is the available maximum towing capacity.

To determine the Gross Trailer Weight, weigh your trailer on a scale with all equipment and cargo, that are normally in the trailer when it is towed. Make sure the Gross trailer weight is not more than the Gross Trailer Weight Rating shown on the trailer and is not more than the calculated available maximum towing capacity.

Also weigh the front and rear axles on the scale to make sure the Front Gross Axle Weight and Rear Gross Axle Weight are not more than Front Gross Axle Weight and Rear Gross Axle Weight on the F.M.V.S.S./C.M.V.S.S. certification label. The cargo in the trailer and vehicle may need to be moved or removed to meet the specified ratings.

Example:

- Gross Vehicle Weight (GVW) as weighed on a scale - including passengers, cargo and hitch - 6,450 lb. (2,926 kg).
- Gross Vehicle Weight Rating (GVWR) from F.M.V.S.S./C.M.V.S.S. certification label - 7,300 lb. (3,311 kg).
- Gross Combined Weight Rating (GCWR) from “Towing Load/Specification” chart - 14,300 lb. (6,486 kg).
- Maximum Trailer towing capacity from “Towing Load/Specification” chart - 8,500 lb. (3,856 kg).

7,300 lb. (3,311 kg)	GVWR
– 6,450 lb. (2,926 kg)	GVW
= 850 lb. (385 kg)	Available for tongue weight
14,300 lb. (6,486 kg)	GCWR
– 6,450 lb. (2,926 kg)	GVW
= 7,850 lb. (3,560 kg)	Capacity available for towing
850 lb. (385 kg) /	Available tongue weight
7,850 lb. (3,560 kg)	Available capacity
	= 11 % tongue weight

The available towing capacity may be less than the maximum towing capacity due to the passenger and cargo load in the vehicle.

Remember to keep trailer tongue weight between 10 - 15% of the trailer weight or within the trailer tongue load specification recommended by the trailer manufacturer. If the tongue load becomes excessive, rearrange the cargo to obtain the proper tongue load. Do not exceed the maximum tongue weight specification shown in the “Towing load/specification” chart even if the calculated available tongue weight is greater than 15%. If the calculated tongue weight is less than 10%, reduce the total trailer weight to match the available tongue weight.

Always verify that available capacities are within the required ratings.

TOWING LOAD/SPECIFICATION

TOWING LOAD/SPECIFICATION CHART

Unit: lb (kg)

	US		Canada
	Two-Wheel Drive (2WD) model	Four-Wheel Drive (4WD) model	Four-Wheel Drive (4WD) model
MAXIMUM TOWING CAPACITY*1, *2	8,500 (3,856)		8,500 (3,856)
MAXIMUM TONGUE LOAD	850 (385)		850 (385)
GROSS COMBINED WEIGHT RATING	14,300 (6,486)	14,480 (6,568)	14,480 (6,568)

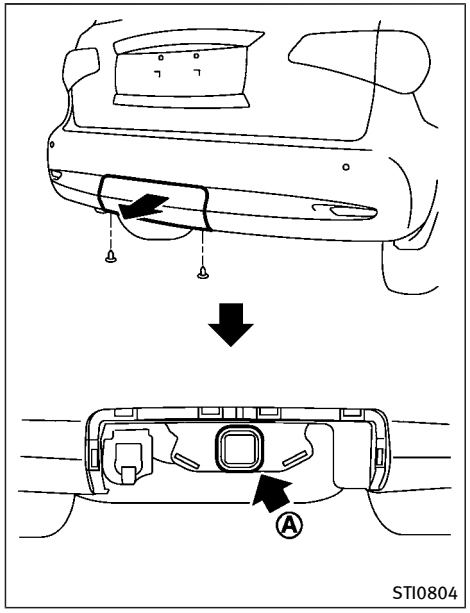
1: The towing capacity values are calculated assuming a base vehicle with driver and any options required to achieve the rating. Additional passengers, cargo and/or optional equipment will add weight to the vehicle and reduce your vehicle's maximum towing capacity.

2: Use of a weight-distributing hitch system is recommended when towing over 5,000 lb (2,267 kg).

TOWING SAFETY

Trailer hitch

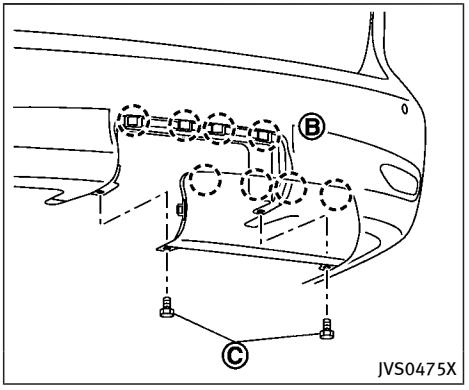
Your vehicle is equipped with a trailer tow package. The trailer tow package includes a receiver-type frame mounted hitch. This hitch is rated for the maximum towing capacity of this vehicle when the proper towing equipment is used. Choose a proper ball mount and hitch ball that is rated for the trailer to be towed. Genuine INFINITI ball mounts and hitch balls are available from an INFINITI retailer.



To access the trailer hitch Ⓐ, remove the trailer hitch cover located on the lower part of the rear bumper.

To remove the trailer hitch cover:

1. Remove the 2 clips.
2. Pull the bottom of the cover straight backward to remove the inner side and upper clips.



To install the trailer hitch cover:

1. Insert the upper clips to the recesses Ⓑ, and then push in the cover to its original position.
2. Install the 2 clips Ⓒ.

WARNING

Trailer hitch components have specific weight ratings. Your vehicle may be capable of towing a trailer heavier than the weight rating of the hitch components. Never exceed the weight rating of the hitch components. Doing so can cause serious

personal injury or property damage.

Hitch ball

Choose a hitch ball of the proper size and weight rating for your trailer:

- The required hitch ball size is stamped on most trailer couplers. Most hitch balls also have the size printed on top of the ball.
- Choose the proper class hitch ball based on the trailer weight.
- The diameter of the threaded shank of the hitch ball must be matched to the ball mount hole diameter. The hitch ball shank should be no more than 1/16" smaller than the hole in the ball mount.
- The threaded shank of the hitch ball must be long enough to be properly secured to the ball mount. There should be at least 2 threads showing beyond the lock washer and nut.

Ball mount

The hitch ball is attached to the ball mount and the ball mount is inserted into the hitch receiver. Choose a proper class ball mount based on the trailer weight. Additionally, the ball mount should be chosen to keep the trailer tongue level with the ground.

Weight carrying hitches

A weight carrying or "dead weight" ball mount is one that is designed to carry the whole amount of tongue weight and gross weight directly on the ball mount and on the receiver.

Weight distribution hitch

This type of hitch is also called a "load-leveling" or "equalizing" hitch. A set of bars attach to the ball mount and to the trailer to distribute the tongue weight (hitch weight) of your trailer. Many vehicles cannot carry the full tongue weight of a given trailer, and need some of the tongue weight transferred through the frame and pushing down on the front wheels. This gives stability to the tow vehicle.

A weight-distributing hitch system (Class IV) is recommended if you plan to tow trailers with a maximum weight over 5,000 lbs (2,267 kg). Check with the trailer and towing equipment manufacturers to determine if they recommend the use of a weight-distributing hitch system.

NOTE:

A weight-distributing hitch system may affect the operation of trailer surge brakes. If you are considering use of a weight-distributing hitch system with a surge brake-equipped trailer, check with the surge brake, hitch or trailer manufacturer to determine if and how this can be done.

Follow the instructions provided by the manufacturer for installing and using the weight-distributing hitch system.

General set-up instructions are as follows:

1. Park unloaded vehicle on a level surface. With the ignition switch in the ON position and the doors closed, allow the vehicle to stand for several minutes so that it can level.
2. Measure the height of a reference point on the front and rear bumpers at the center of the vehicle.
3. Attach the trailer to the vehicle and adjust the hitch equalizers so that the front bumper height is within 0 - .5 inches (0 - 13 mm) of the reference height measured in step 2. The rear bumper should be no higher than the reference height measured in step 2.

WARNING

Properly adjust the weight distributing hitch so the rear of the bumper is no higher than the measured reference height when the trailer is attached. If the rear bumper is higher than the measured reference height when loaded, the vehicle may handle unpredictably which could cause a loss of vehicle control and cause serious personal injury or property damage.

Sway control device

Sudden maneuvers, wind gusts and buffeting caused by other vehicles can affect trailer handling. Sway control devices may be used to help control these affects. If you choose to use one, contact a reputable trailer hitch supplier to make sure the sway control device will work with the vehicle, hitch, trailer and the trailer's brake system. Follow the instructions provided by the manufacturer for installing and using the sway control device.

Class I hitch

Class I trailer hitch equipment (receiver, ball mount and hitch ball) can be used to tow trailers of a maximum weight of 2,000 lb (907 kg).

Class II hitch

Class II trailer hitch equipment (receiver, ball mount and hitch ball) can be used to tow trailers of a maximum weight of 3,500 lb (1,588 kg).

Class III hitch

Class III trailer hitch equipment (receiver, ball mount and hitch ball) can be used to tow trailers of a maximum weight of 5,000 lb (2,267 kg).

Class IV hitch

Class IV trailer hitch equipment (receiver, ball mount and hitch ball) can be used to tow trailers of a maximum weight of 10,000 lb (4,545 kg). A weight distributing hitch should be used to tow trailers that weigh over 5,000 lb (2,267 kg).

Your vehicle may be equipped with Class IV trailer hitch equipment that has a 10,000 lb (4,545 kg) maximum weight rating, but your vehicle is only capable of towing the maximum trailer weights shown in the "Towing Load/Specification" chart earlier in this section.

CAUTION

- **Do not use axle-mounted hitches.**
- **Do not modify the vehicle exhaust system, brake system, etc.**
- **Do not attach any additional hitches to your vehicle because a hitch is already mounted to your vehicle frame.**

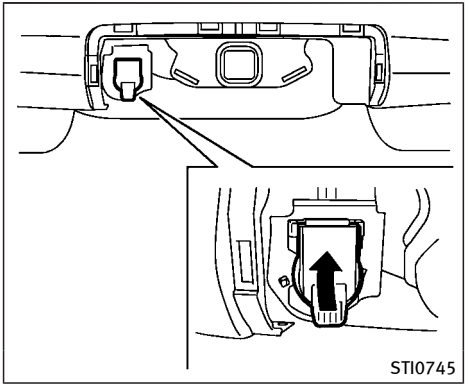
Tire pressures

- When towing a trailer, inflate the vehicle tires to the recommended cold tire pressure indicated on the Tire and Loading Information label.
- Trailer tire condition, size, load rating and proper inflation pressure should be in accordance with the trailer and tire manufacturers' specifications.

Safety chains

Always use a suitable chain between your vehicle and the trailer. The safety chains should be crossed and should be attached to the hitch, not to the vehicle bumper or

axle. Be sure to leave enough slack in the chains to permit turning corners.



Trailer lights

Your vehicle is equipped with a towing package, which also includes the 7-pin trailer harness connector located under the trailer hitch cover on the rear bumper.

CAUTION

- **When splicing into the vehicle electrical system, a commercially available power-type module/converter must be used to provide power for all trailer lighting. This unit uses the vehicle battery as a direct power source for all trailer lights while using the vehicle tail light, stoplight and turn signal circuits as a signal source. The module/converter must draw no more than 15 milliamps from the stop and tail lamp circuits. Using a module/converter that exceeds these power requirements may damage the vehicle's electrical system. See a reputable trailer retailer to obtain the proper equipment and to have it installed.**
- **Do not connect electrical devices that draw more than 40 amps to the vehicle. The fusible link may melt.**

Trailer lights should comply with federal and/or local regulations. For assistance in hooking up trailer lights, contact an INFINITI retailer or reputable trailer retailer.

Trailer brakes

When towing a trailer load of 3,500 lbs. (1,587 kg) or more, trailers with a brake system MUST be used. However, most states require a separate braking system on trailers with a loaded weight above a specific amount. Make sure the trailer meets the local regulations and the regulations where you plan to tow.

Several types of braking systems are

available.

Surge Brakes - The surge brake actuator is mounted on the trailer tongue with a hydraulic line running to each trailer wheel. Surge brakes are activated by the trailer pushing against the hitch ball when the tow vehicle is braking. Hydraulic surge brakes are common on rental trailers and some boat trailers. In this type of system, there is no hydraulic or electric connection for brake operation between the tow vehicle and the trailer.

Electric Trailer Brakes - Electric braking systems are activated by an electronic signal sent from a trailer brake controller (special brake sensing module).

Have a professional supplier of towing equipment make sure the trailer brakes are properly installed and demonstrate proper brake function testing.

WARNING

Never connect a trailer brake system directly to the vehicle brake system.

Pre-towing tips

- Be certain your vehicle maintains a level position when a loaded or unloaded trailer is hitched. Do not drive the vehicle if it has an abnormal nose-up or nose-down condition; check for improper tongue load, overload, worn suspension or other possible causes of either condition.
- Always secure items in the trailer to prevent load shift while driving.
- Keep the cargo load as low as possible in the trailer to keep the trailer center of gravity low.
- Load the trailer so approximately 60% of the trailer load is in the front half and 40% is in the back half. Also make sure the load is balanced side to side.
- Check your hitch, trailer tire pressure, vehicle tire pressure, trailer light operation, and trailer wheel lug nuts every time you attach a trailer to the vehicle.
- Be certain your rearview mirrors conform to all federal, state or local regulations. If not, install any mirrors required for towing before driving the vehicle.
- Determine the overall height of the vehicle and trailer so the required clearance is known.

Trailer towing tips

In order to gain skill and an understanding of the vehicle's behavior, you should practice turning, stopping and backing up in an area which is free from traffic. Steering stability, and braking performance will be somewhat different than under normal driving conditions.

- Always secure items in the trailer to prevent load shift while driving.
- Lock the trailer hitch coupler with a pin or lock to prevent the coupler from inadvertently becoming unlatched.
- Avoid abrupt starts, acceleration or stops.
- Avoid sharp turns or lane changes.
- Always drive your vehicle at a moderate speed. Some states or provinces have specific speed limits for vehicles that are towing trailers. Obey the local speed limits.
- When backing up, hold the bottom of the steering wheel with one hand. Move your hand in the direction in which you want the trailer to go. Make small corrections and back up slowly. If possible, have someone guide you

when you are backing up.

Always block the wheels on both vehicle and trailer when parking. Parking on a slope is not recommended; however, if you must do so:

CAUTION

If you move the shift lever to the P (Park) position before blocking the wheels and applying the parking brake, transmission damage could occur.

1. Apply and hold the brake pedal.
2. Have someone place blocks on the downhill side of the vehicle and trailer wheels.
3. After the wheel blocks are in place, slowly release the brake pedal until the blocks absorb the vehicle load.
4. Apply the parking brake.
5. Shift the transmission into P (Park).
6. **Four-Wheel Drive (4WD) models:**

 Make sure that the 4WD shift switch is engaged in the AUTO, 4HI or 4LO position and the Automatic Transmission (AT) park warning light is turned off.
7. Turn off the engine.

To drive away:

1. Apply and hold the brake pedal.
2. Start the engine.
3. Shift the transmission into gear.
4. Release the parking brake.
5. Drive slowly until the vehicle and trailer are clear from the blocks.
6. Apply and hold the brake pedal.
7. Have someone retrieve and store the blocks.

- While going downhill, the weight of the trailer pushing on the tow vehicle may decrease overall stability. Therefore, to maintain adequate control, reduce your speed and shift to a lower gear. Avoid long or repeated use of the brakes when descending a hill, as this reduces their effectiveness and could cause overheating. Shifting to a lower gear instead provides “engine braking” and reduces the need to brake as frequently.
- If the engine coolant temperature rises to a high temperature, see “If your vehicle overheats” (P.6-14).
- Trailer towing requires more fuel than normal circumstances.
- Avoid towing a trailer for your vehicle’s first 500 miles (800 km).
- Have your vehicle serviced more often than at intervals specified in the recommended maintenance schedule shown in the “9. Maintenance and schedules” section.
- When making a turn, your trailer wheels will be closer to the inside of the turn than your vehicle wheels. To compensate for this, make a larger than normal turning radius during the turn.
- Crosswinds and rough roads will adversely affect vehicle/trailer handling, possibly causing vehicle sway. When being passed by larger vehicles, be prepared for possible changes in crosswinds that could affect vehicle handling.

Do the following if the trailer begins to sway:

1. Take your foot off the accelerator pedal to allow the vehicle to coast and steer as straight ahead as the road conditions allow. This combination will help stabilize the vehicle.

- Do not correct trailer sway by steering or applying the brakes.

2. When the trailer sway stops, gently apply the brakes and pull to the side of the road in a safe area.
3. Try to rearrange the trailer load so it is balanced as described earlier in this section.

- Be careful when passing other vehicles. Passing while towing a trailer requires considerably more distance than normal passing. Remember the length of the trailer must also pass the other vehicle before you can safely change lanes.
- Use the Tow mode or downshift the transmission to a lower gear for engine braking when driving down steep or long hills. This will help slow the vehicle without applying the brakes.
- Avoid holding the brake pedal down too long or too frequently. This could cause the brakes to overheat, resulting in reduced braking efficiency.
- Increase your following distance to allow for greater stopping distances while towing a trailer. Anticipate stops and brake gradually.
- INFINITI recommends that the cruise control not be used while towing a trailer.
- While towing a trailer, do not use the following systems (if so equipped):
 - the Lane Departure Warning (LDW) system
 - the Lane Departure Prevention (LDP) system
 - the Blind Spot Warning (BSW) system
 - the Blind Spot Intervention® (BSI) system
 - the Back-up Collision Intervention (BCI) system
 - the Intelligent Cruise Control (ICC) system
 - the Distance Control Assist (DCA) system
 - the Forward Emergency Braking (FEB) with pedestrian detection system
 - the Predictive Forward Collision Warning (PFCW) system
- Some states or provinces have specific regulations and speed limits for vehicles that are towing trailers. Obey the local speed limits.
- Check your hitch, trailer wiring harness connections, and trailer wheel lug nuts after 50 miles (80 km) of travel and at every break.
- When launching a boat, do not allow the water level to go over the exhaust tail pipe or rear bumper.
- Make sure you disconnect the trailer lights before backing the trailer into the water or the trailer lights may burn out.

When towing a trailer, the transmission fluid should be changed more frequently. For additional information, see "9. Maintenance and schedules" section.

TOW mode

Using TOW mode is recommended when pulling a heavy trailer or hauling a heavy load. Push the TOW MODE switch to activate tow mode. The TOW MODE indicator light in the meter illuminates when TOW mode is selected. Push the TOW MODE switch again to turn TOW mode off. TOW mode is automatically cancelled when the ignition switch is placed in the OFF position.

TOW mode includes the following features:

- Grade logic — Adjusts transmission shifts when pulling a trailer or hauling

a load up a grade.

- Downhill Speed Control (DSC) — automatically downshifts when driving down a grade with a trailer or heavy load to help control vehicle speed.

Driving the vehicle in the TOW mode with no trailer/load or light trailer/light load will not cause any damage. However, fuel economy may be reduced and the transmission/engine driving characteristics may feel unusual.

When towing a trailer, the transmission fluid should be changed more frequently. For additional information, see "9. Maintenance and schedules" section.

Trailer Sway Control

To minimize trailer sway, your vehicle may apply braking to individual wheels based on input from your vehicle sensors and vehicle speed. Trailer Sway Control is a function of the Vehicle Dynamic Control (VDC) system and is active when the VDC function is enabled.

CAUTION

If the VDC OFF switch is on (meaning VDC system OFF), the Trailer Sway Control is also disabled.

When Trailer Sway Control is in operation, the VDC warning light blinks. When vehicle control is regained, VDC warning light will turn OFF.

For additional information about the VDC system, see "Vehicle Dynamic Control (VDC) system" (P.5-137).

If Trailer Sway Control activates:

1. Take your foot off the accelerator pedal to allow the vehicle to coast and steer as straight ahead as the road conditions allow. This combination will help stabilize the vehicle.

CAUTION

Do not try to correct trailer sway by steering or applying the brakes.

2. When the trailer sway stops, gently apply the brakes and pull to the side of the road in a safe area.
3. Try to rearrange the trailer load so it is balanced.

NOTE:

Trailer Sway Control cannot reduce trailer sway in all situations.

FLAT TOWING

Towing your vehicle with all four wheels on the ground is sometimes called flat towing. This method is sometimes used when towing a vehicle behind a recreational vehicle, such as a motor home.

CAUTION

- **Failure to follow these guidelines can result in severe transmission damage.**
- **Whenever flat towing your vehicle, always tow forward, never backward.**
- **DO NOT tow any automatic transmission vehicle with all four wheels on the ground (flat towing). Doing so WILL DAMAGE internal transmission parts due to lack of transmission lubrication.**
- **DO NOT tow a Four-Wheel Drive (4WD) vehicle with any of the wheels on the ground. Doing so may cause serious and expensive damage to the powertrain.**
- **For emergency towing procedures refer to "Towing recommended by INFINITI"**

(P.6-16).

Automatic Transmission

Four-Wheel Drive (4WD) models:

Do not tow a 4WD vehicle with any of the wheels on the ground.

Two-Wheel Drive (2WD) models:

To tow a vehicle equipped with an automatic transmission, an appropriate vehicle dolly **MUST** be placed under the towed vehicle's drive wheels. **Always** follow the dolly manufacturer's recommendations when using their product.

UNIFORM TIRE QUALITY GRADING

DOT (Department Of Transportation) Quality Grades: All passenger car tires must conform to federal safety requirements in addition to these grades.

Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width. For example:

Treadwear 200 Traction AA Temperature A

TREADWEAR

The treadwear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear one and one-half (1 1/2) times as well on the government course as a tire graded 100. The relative performance of tires depends upon actual conditions of their use, however, and may depart significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

TRACTION AA, A, B AND C

The traction grades, from highest to lowest, are AA, A, B and C. Those grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.

WARNING

The traction grade assigned to this tire is based on straight-ahead braking traction tests, and does not include acceleration, cornering, hydroplaning, or peak traction characteristics.

TEMPERATURE A, B AND C

The temperature grades A (the highest), B, and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel. Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden

tire failure. The grade C corresponds to a level of performance which all passenger car tires must meet under the Federal Motor Vehicle Safety Standard No. 109. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

WARNING

The temperature grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, under-inflation, or excessive loading, either separately or in combination, can cause heat build-up and possible tire failure.

EMISSION CONTROL SYSTEM WARRANTY

Your INFINITI is covered by the following emission warranties.

For USA:

- Emission Defects Warranty
- Emissions Performance Warranty

Details of these warranties may be found with other vehicle warranties in your Warranty Information Booklet that comes with your INFINITI. If you did not receive a Warranty Information Booklet, or it has become lost, you may obtain a replacement by writing to:

- INFINITI Division
 Nissan North America, Inc.
 Consumer Affairs Department
 P.O. Box 685003
 Franklin, TN 37068-5003

For Canada:

Emission Control System Warranty

Details of these warranties may be found with other vehicle warranties in your Warranty and Roadside Assistance Information that comes with your INFINITI. If you did not receive a Warranty and Roadside Assistance Information, or it has become lost, you may obtain a replacement by writing to:

- Nissan Canada Inc.
 5290 Orbitor Drive
 Mississauga, Ontario,
 L4W 4Z5

REPORTING SAFETY DEFECTS

For USA

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying INFINITI.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your retailer, or INFINITI.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888- 327-4236 (TTY: 1-800-424-9153); go to http://www.safercar.gov; or write to: Administrator, NHTSA, 400 Seventh Street, SW., Washington, D.C. 20590. You can also obtain other information about motor vehicle safety from http://www.safercar.gov.

You may notify INFINITI by contacting our Consumer Affairs Department, toll-free, at 1-800-662-6200.

For Canada

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform Transport Canada in addition to notifying INFINITI.

If Transport Canada receives complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may request that INFINITI conduct a recall campaign. However, Transport Canada cannot become involved in individual problems between you, your retailer, or INFINITI.

You may contact Transport Canada's Defect Investigations and Recalls Division toll free at 1-800-333-0510. You may also report safety defects online at:

https://wwwapps.tc.gc.ca/Saf-Sec-Sur/7/ PCDB-BDPP/Index.aspx.

Additional information concerning motor vehicle safety may be obtained from Transport Canada's Road Safety Information Centre at 1-800-333-0371 or online at www.tc.gc.ca/roadsafety (English speakers) or www.tc.gc.ca/securiteroutiere (French speakers).

To notify INFINITI of any safety concerns please contact our Consumer Information Centre toll free at 1-800-361-4792.

READINESS FOR INSPECTION/ MAINTENANCE (I/M) TEST

WARNING

A vehicle equipped with Four-Wheel Drive (4WD) should never be tested using a two wheel dynamometer (such as the dynamometers used by some states for emissions testing), or similar equipment. Make sure you inform test facility personnel that your vehicle is equipped with 4WD before it is placed on a dynamometer. Using the wrong test equipment may result in transmission damage or unexpected vehicle movement which could result in serious vehicle damage or personal injury.

Due to legal requirements in some states and Canadian Provinces, your vehicle may be required to be in what is called the "ready condition" for an Inspection/Maintenance (I/M) test of the emission control system.

The vehicle is set to the "ready condition" when it is driven through certain driving patterns. Usually, the "ready condition" can be obtained by ordinary usage of the vehicle.

If a powertrain system component is repaired or the battery is disconnected, the vehicle may be reset to a "not ready condition". Before taking the I/M test, check the vehicle's inspection/maintenance test readiness condition. Place the ignition switch in the ON position without starting the engine. If the Malfunction Indicator Light (MIL) comes on steady for 20 seconds and then blinks for 10 seconds, the I/M test condition is "not ready". If the MIL does not blink after 20 seconds, the I/M test condition is "ready".

It is recommended you visit an INFINITI retailer to set "ready condition" or to prepare the vehicle for testing.

EVENT DATA RECORDERS (EDR)

This vehicle is equipped with an Event Data Recorder (EDR). The main purpose of an EDR is to record, in certain crash or near crash-like situations, such as an air bag deployment or hitting a road obstacle, data that will assist in understanding how a vehicle's systems performed. The EDR is designed to record data related to vehicle dynamics and safety systems for a short period of time, typically 30 seconds or less. The EDR in this vehicle is designed to record such data as:

- How various systems in your vehicle were operating;
- Whether or not the driver and passenger safety belts were buckled/fastened;
- How far (if at all) the driver was depressing the accelerator and/or brake pedal; and,
- How fast the vehicle was traveling.
- Sounds are not recorded.

These data can help provide a better understanding of the circumstances in which crashes and injuries occur.

NOTE: EDR data are recorded by your vehicle only if a nontrivial crash situation occurs; no data are recorded by the EDR under normal driving conditions and no personal data (e.g. name, gender, age and

crash location) are recorded. However, other parties, such as law enforcement, could combine the EDR data with the type of personally identifying data routinely acquired during a crash investigation.

To read data recorded by an EDR, special equipment is required and access to the vehicle or the EDR is needed. In addition to the vehicle manufacturer and INFINITI retailer, other parties, such as law enforcement, that have the special equipment, can read the information if they have access to the vehicle or the EDR. EDR data will only be accessed with the consent of the vehicle owner or lessee or as otherwise required or permitted by law.

OWNER'S MANUAL/SERVICE MANUAL ORDER INFORMATION

Genuine INFINITI Service Manual for this model year and prior can be purchased. A genuine INFINITI Service Manual is the best source of service and repair information for your vehicle. This manual is the same one used by the factory-trained technicians working at INFINITI retailers. Genuine INFINITI Owner's Manual can also be purchased.

For USA:

For current pricing and availability of genuine **INFINITI Service Manuals,** contact:

www.infiniti-techinfo.com

For current pricing and availability of genuine **INFINITI Owner's Manuals,** contact:

1-800-247-5321

For Canada:

To purchase a copy of a genuine INFINITI Service Manual or Owner's Manual for this model year and prior, please contact an INFINITI retailer. For the phone number and location of an INFINITI retailer in your area, call the INFINITI Satisfaction Center at 1-800-361-4792 and a bilingual INFINITI representative will assist you.

MEMO

MEMO

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MEMO

FUEL INFORMATION

VK56VD engine

INFINITI recommends the use of unleaded premium gasoline with an octane rating of at least 91 AKI (Anti-Knock Index) number (Research octane number 96).

If unleaded premium gasoline is not available, you may use unleaded regular gasoline with an octane rating of at least 87 AKI number (Research octane number 91), but you may notice a decrease in performance.

CAUTION

- **Using a fuel other than that specified could adversely affect the emission control systems, and may also affect warranty coverage.**
- **Under no circumstances should a leaded gasoline be used, because this will damage the three way catalyst.**
- **Do not use E-15 or E-85 fuel in your vehicle. Your vehicle is not designed to run on E-15 or E-85 fuel. Using E-15 or E-85 fuel in a vehicle not specifically designed for E-15 or E-85 fuel can adversely affect the emission control devices and systems of the vehicle. Damage caused by such fuel is not covered by the INFINITI new vehicle limited warranty.**
- **U.S. government regulations require ethanol dispensing pumps to be identified by a small, square, orange and black label with the common abbreviation or the appropriate percentage for that region.**

ENGINE OIL RECOMMENDATION:

- Genuine “NISSAN Motor Oil 0W-20 SN”.

See “Capacities and recommended fluids/lubricants” (P.10-2) for engine oil and oil filter recommendation.

COLD TIRE PRESSURES:

The label is typically located on the driver side center pillar or on the driver’s door. For additional information, see “Wheels and tires” (P.8-27).

NEW VEHICLE BREAK-IN PROCEDURES RECOMMENDATION:

During the first 1,200 miles (2,000 km) of vehicle use, follow the recommendations outlined in the “Break-in schedule” (P.5-122). Follow these recommendations for the future reliability and economy of your new vehicle.

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